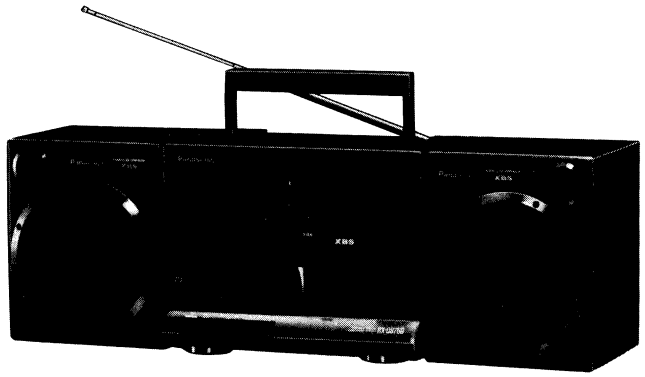
ORDER NO. MD8905020C2

Service Manual

Radio Cassette

RX-CS750

Portable Stereo Component System



Color

(K)	Black Type

Area

Country Code	Areas	Color
(E)	Continental Europe	(K)
(EB)	Great Britain	
(EG)	F.R. Germany/Italy	

RX-CS750 MECHANISM SERIES

■ SPECIFICATIONS

General:

Power Requirement:	AC; (E) (EG) . . 220 V, 50 Hz (EB) . . . . 240 V, 50 Hz Battery; 15 V (10 UM-1 "R20/LR20" Batteries) DC IN; 13.2 V (12~15 V)
Power Consumption:	45 W (AC only)
Power Output:	22 W (11 W×2)...RMS (max.) 60 W (30 W×2)...PMPO
Speaker:	Woofer; 16 cm PM Dynamic Speaker (2.7Ω) Tweeter; 2 cm Ceramic Speaker
Jacks:	
Input;	CD/AUX; 316 mV, 47 kΩ EXT. MIC; 0.32 mV (200~600Ω), Ø3.5
Output;	EXT. SP; 2.7~8Ω HEADPHONES; 32Ω, Ø3.5
Dimensions:	652 (W)×218 (H)×196 (D) Main Unit; 299 (W)×218 (H)×196 (D) Speaker Box; 185 (W)×218 (H)×183 (D)
Weight:	6.0 kg without batteries

Radio Section:

Radio Frequency Range:	FM; 87.5~108 MHz LW; 148.5~285 kHz MW; 520~1610 kHz SW; 5.9~18.0 MHz
Intermediate Frequency:	FM; 10.7 MHz AM; 459 kHz
Sensitivity:	FM; 2 μV/50 mW output (−3 dB Limit Sens) LW; 224 μV/m/50 mW output MW; 178 μV/m/50 mW output SW; 10 μV/50 mW output

Tape Deck Section:

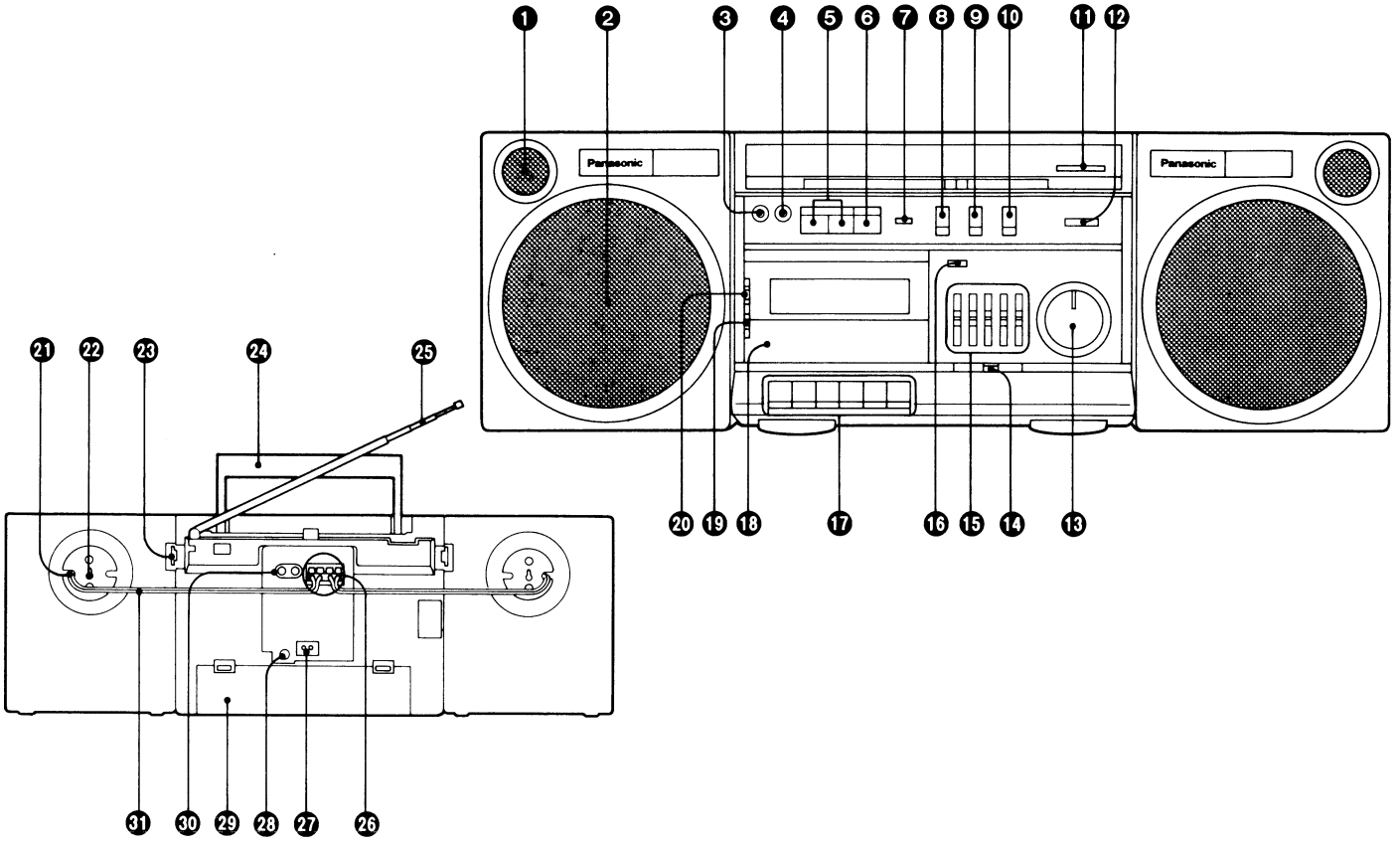
Frequency Response:	Normal; 60~12,000 Hz CrO_2; 60~ 13,000 Hz
Recording System:	AC bias, Magnet erase
Tape Speed:	4.8 cm/s
Track System:	4-track 2-channel stereo recording and playback

Design and specifications are subject to change without notice.

Panasonic®

Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan

LOCATION OF CONTROLS



❶ **Speakers [Tweeter] (2 cm)**

❷ **Speakers [Woofer] (16 cm, 2.7Ω)**

❸ **Headphones Jack (PHONES) (∅3.5, 32Ω)**
- When using the headphones, avoid listening to sound at excessive volume levels, because it may injure your ears.
- Speakers are automatically cut off when headphones are connected.

❹ **External Microphone Jack (EXT MIC) (∅3.5, 200~600Ω)**

❺ **Operation/Battery Check/Tape Direction Indicators (OPERATION/BATT/REVERSE • FORWARD)**

❻ **FM Stereo Indicator (FM STEREO)**

❼ **Tape Selector (TAPE SELECTOR)**

❽ **FM Mode Selector/Beat Proof Switch (FM MODE/B.P)**

❾ **Function Selector (SELECTOR)**

❿ **Band Selector (BAND)**

⓫ **Tuning Control (TUNING)**

⓬ **Fine Tuning Control (FINE TUNING)**

⓭ **Volume Control (VOLUME)**

⓮ **Balance Control (BALANCE)**

⓯ **Graphic Equalizer Controls (GRAPHIC EQUALIZER)**
"100 Hz" Control functions as an XBS Level Control.

⓰ **XBS (Extra Bass System) Switch**

⓱ **Tape Operation Buttons**
- **Record Button (● RECORD)**
- **Playback Button (▶ PLAY)**
- **Fast Buttons (◀◀ • ▶▶ FAST)**
- **Stop/Eject Button (■/▲ STOP/EJECT)**
- **Pause Button (❚❚ PAUSE)**

⓲ **Cassette Compartment**

⓳ **Reverse Mode Selector (REVERSE MODE)**

⓴ **Direction Button (DIRECTION)**

㉑ **Speaker Cable Compartments**

㉒ **Speaker Wall Mounts**

㉓ **Speaker Release Levers (RELEASE)**

㉔ **Handle**

㉕ **Telescopic Antenna**

㉖ **Speaker Terminals [SPEAKER (IMP 2.7–8Ω)]**

㉗ **AC Socket (AC IN ~)**

㉘ **DC Input Jack [DC IN 13.2 V (12–15 V (⊖-●-⊕)]**

㉙ **Battery Compartment**

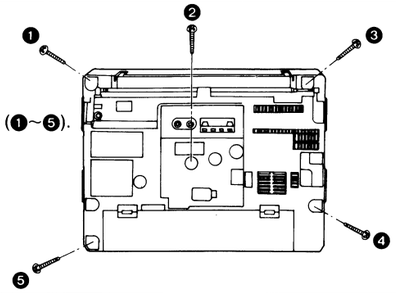
㉚ **CD/AUX Input Jacks (CD/AUX IN) (316 mV, 47 kΩ)**

㉛ **Speaker Cables**

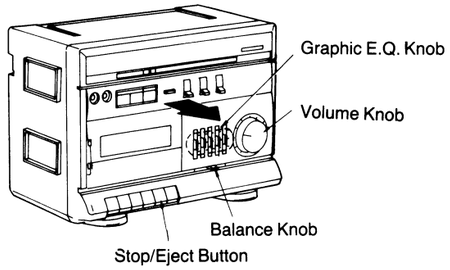
DISASSEMBLY INSTRUCTIONS

Ref. No. 1 — Removal of the Front Cabinet

Procedure 1



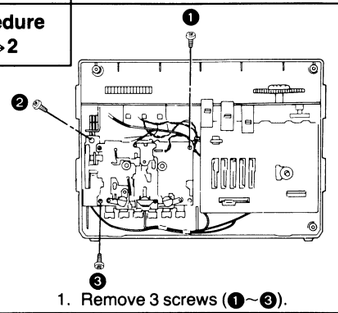
1. Remove 5 screws (❶~❺).



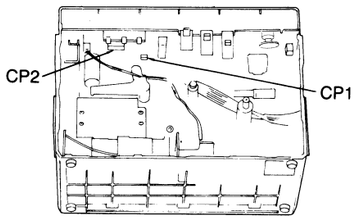
2. Remove graphic E.Q. knobs, volume knob and balance knob.
3. Press the stop/eject button then open the cassette lid.
4. Remove the front cabinet in the direction of arrow.

Ref. No. 2 — Removal of the Mechanism

Procedure 1→2

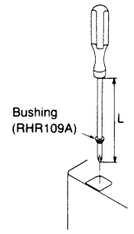


1. Remove 3 screws (❶~❸).



2. Remove 2 connector (CP1, CP2).

[Removal of Screws]
- Use a screwdriver similar to the one in the figure.

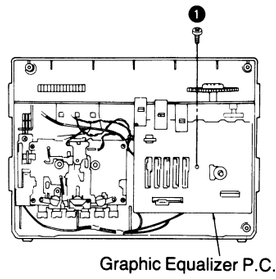


- If you attach a bushing (part number: RHR109A) to the tip of the screwdriver as shown in the figure, the screwdriver tip will easily fit in the screw heads and you will be able to remove the screws with ease.

L = 150 mm or longer.

Ref. No. 3 — Removal of the Graphic E.Q. P.C.B.

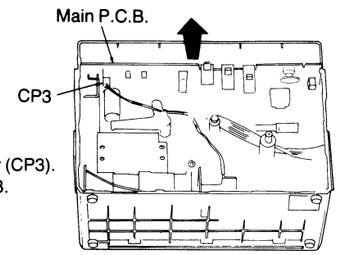
Procedure 1→3



1. Remove the screw (❶).

Ref. No. 4 — Removal of the Main P.C.B.

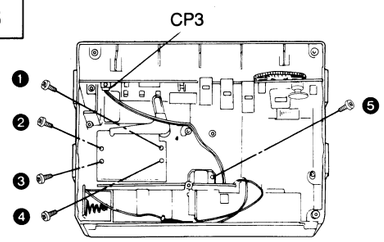
Procedure 1→2→3→4



1. Remove the connector (CP3).
2. Pull out the main P.C.B.

Ref. No. 5 — Remove of the Power P.C.B.

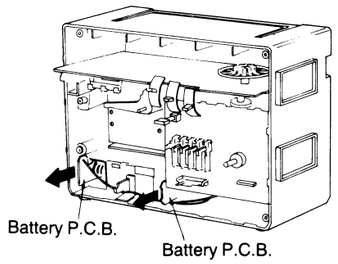
Procedure 1→2→3→5



1. Remove 5 screws (❶~❺).
2. Remove the connector (CP3).

Ref. No. 6 — Removal of the Battery P.C.B.

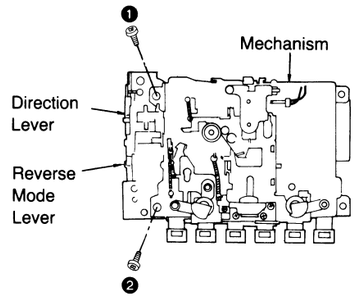
Procedure 1→2→6



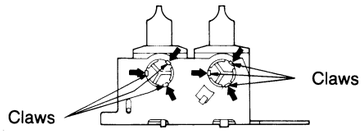
- Remove the battery P.C.B. in the direction of arrows.

Ref. No. 7 — Removal of the Direction Lever and Reverse Mode Lever

Procedure 1→2→7



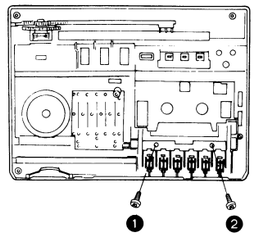
1. Remove 2 screws (❶, ❷).



2. Release 6 claws in the direction of arrows.

Ref. No. 8 — Removal of the Mechanism Button

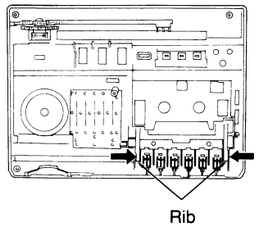
Procedure 1→8



- Remove 2 screws (❶, ❷).

Ref. No. 9 — Removal of the Cassette Lid

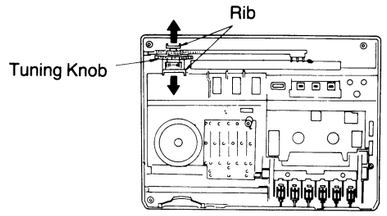
Procedure 1→9



- Remove 2 ribs in the direction of arrows.

Ref. No. 10 — Removal of the Tuning Knob

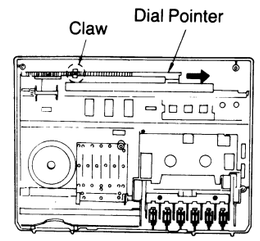
Procedure 1→10



- Remove 2 ribs in the direction of arrows.

Ref. No. 11 — Removal of the Dial Pointer

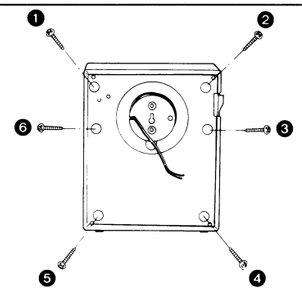
Procedure 1→10→11



- Remove the claw and remove the dial pointer in the direction of arrow.

Ref. No. 12 — Removal of the Speaker's Front Cabinet

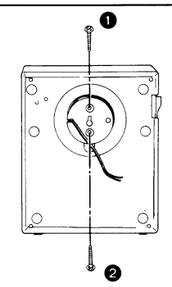
Procedure 12



- Remove 6 screws (❶~❻).

Ref. No. 13 — Removal of the Speaker Wall Mount

Procedure 13



- Remove 2 screws (❶, ❷).

Graphic E.Q. Knob

Volume Knob

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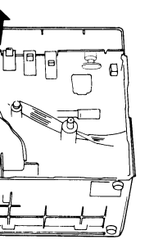
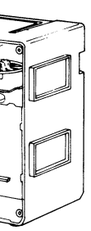
C.B.



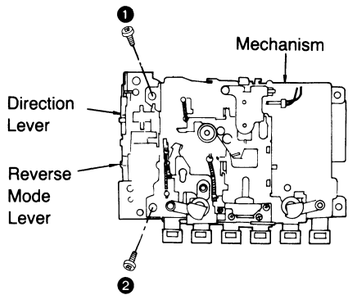
P.C.B.



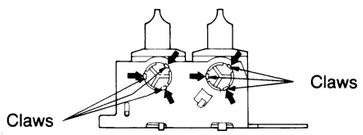
C.B.

of arrows.

Ref. No. 7	Removal of the Direction Lever and Reverse Mode Lever
Procedure 1→2→7	

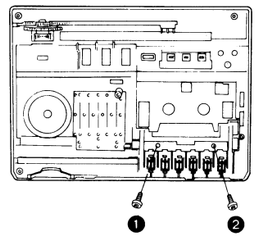


1. Remove 2 screws (❶, ❷).



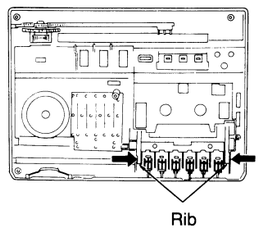
2. Release 6 claws in the direction of arrows.

Ref. No. 8	Removal of the Mechanism Button
Procedure 1→8	



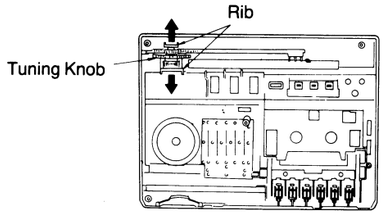
●Remove 2 screws (❶, ❷).

Ref. No. 9	Removal of the Cassette Lid
Procedure 1→9	



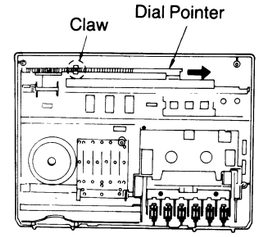
●Remove 2 ribs in the direction of arrows.

Ref. No. 10	Removal of the Tuning Knob
Procedure 1→10	



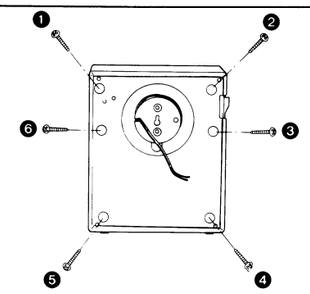
●Remove 2 ribs in the direction of arrows.

Ref. No. 11	Removal of the Dial Pointer
Procedure 1→10→11	



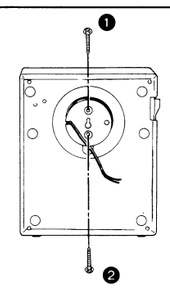
●Remove the claw and remove the dial pointer in the direction of arrow.

Ref. No. 12	Removal of the Speaker's Front Cabinet
Procedure 12	



●Remove 6 screws (❶~❻).

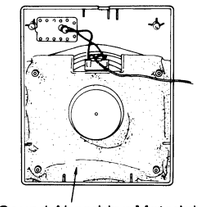
Ref. No. 13	Removal of the Speaker Wall Mount
Procedure 13	

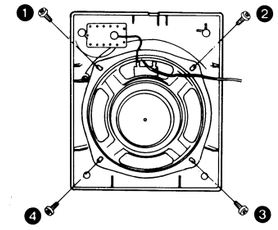


●Remove 2 screws (❶, ❷).

Ref. No. 14	Removal of the Speaker (Woofer)
Procedure 12→14	

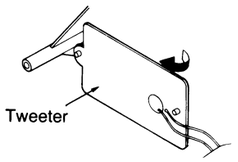
1. Remove the sound absorbing material.





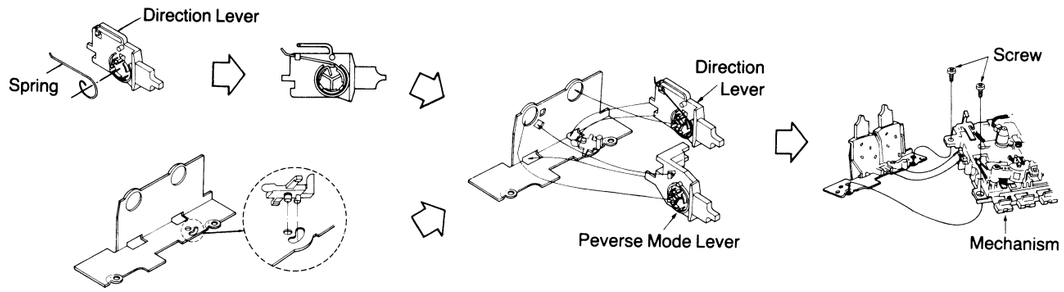
2. Remove 4 screws (❶~❹).

Ref. No. 15	Removal of the Speaker (Tweeter)
Procedure 12→15	

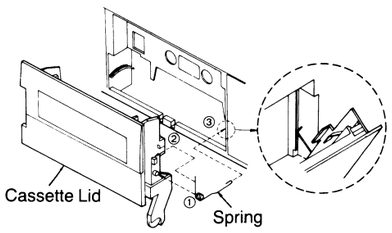


●Detach the tweeter in the direction of arrow.
Note: The tweeter has been attached to the cabinet with double-sided adhesive tape.

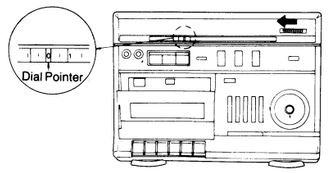
■ DIRECTION LEVER AND REVERSE MODE LEVER ASSEMBLY



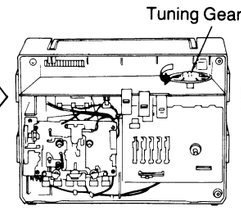
■ CASSETTE LID ASSEMBLY



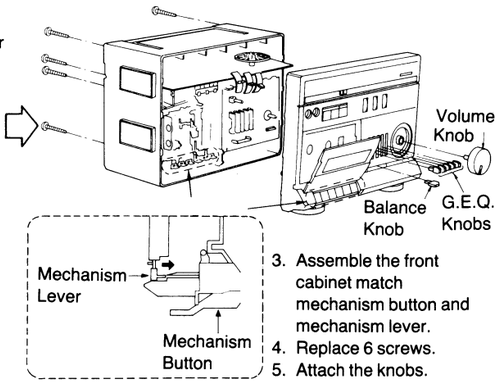
■ FRONT CABINET ASSEMBLY



1. Line up the dial pointer in the front cabinet assembly with the "0" point graduation as shown in figure.



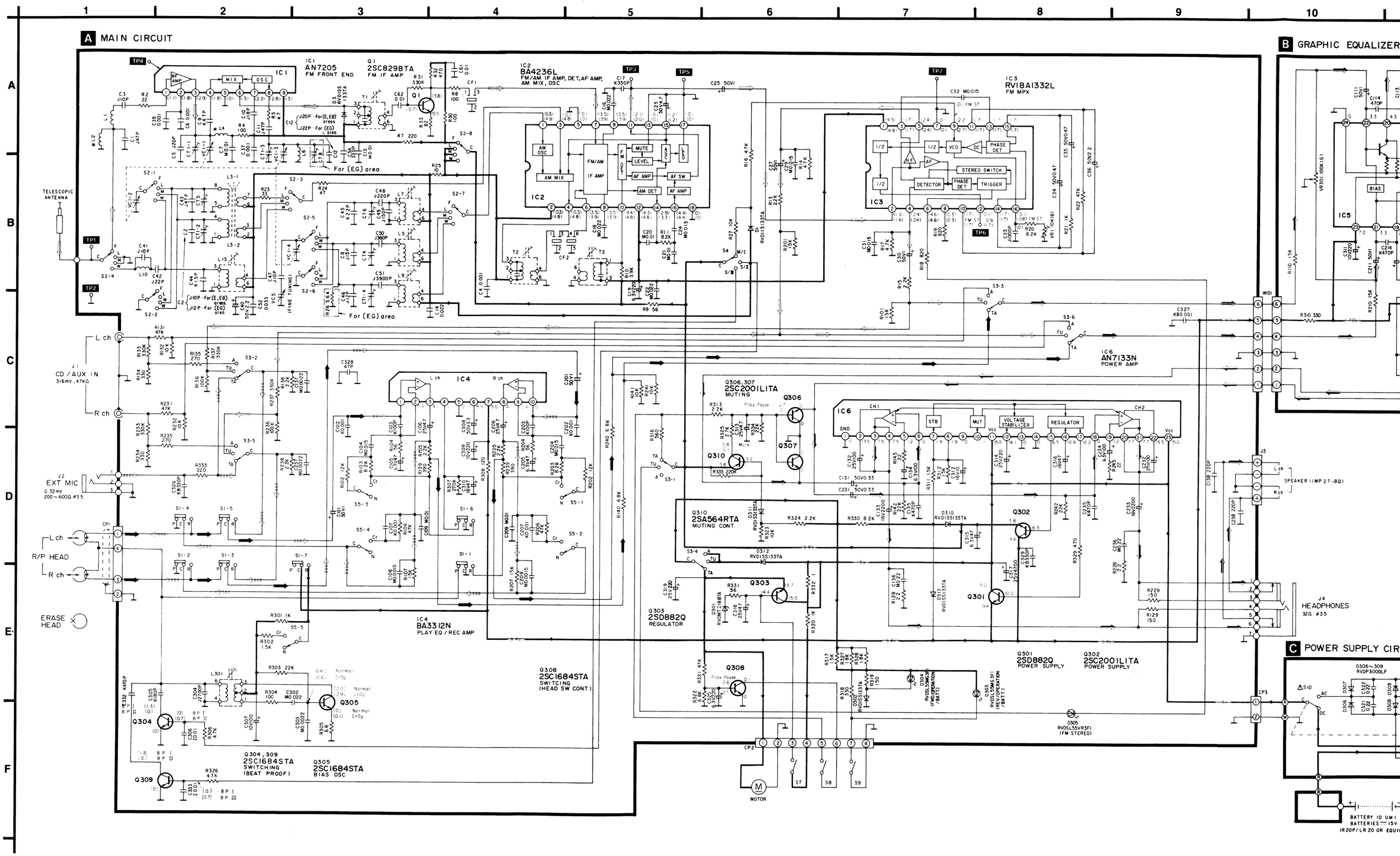
2. Turn the tuning gear all the way in the direction of arrow.



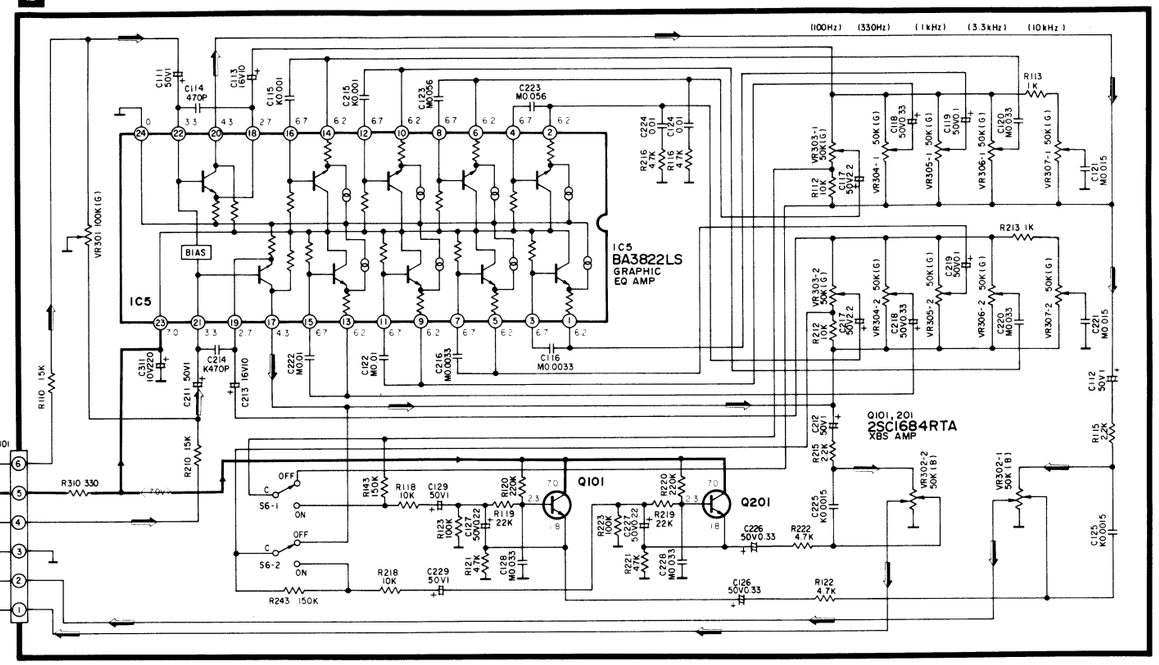
3. Assemble the front cabinet match mechanism button and mechanism lever.
4. Replace 6 screws.
5. Attach the knobs.

RX-CS750 RX-CS750

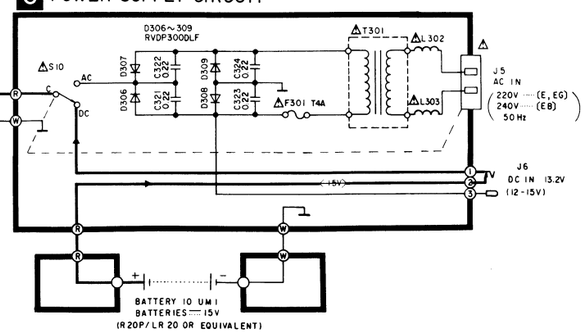
SCHEMATIC DIAGRAM

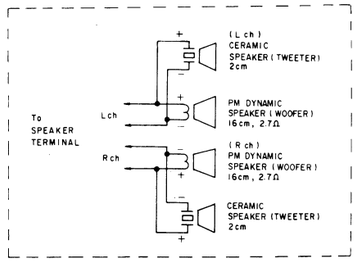

A MAIN CIRCUIT
B GRAPHIC EQUALIZER
C POWER SUPPLY CIR
IC1 AN7205 FM FRONT END
Q1 2SC829BTA FM IF AMP
IC2 BA4236L FM/AM, IF AMP, DET, AF AMP, AM MIX, OSC
IC3 RV1BAI332L FM MPX
IC4 BA3312N PLAY EQ / REC AMP
IC5
IC6 AN7133N POWER AMP
Q303 2SD882Q REGULATOR
Q301 2SD882Q POWER SUPPLY
Q302 2SC2001ILITA POWER SUPPLY
Q304, 309 2SC1684STA SWITCHING (BEAT PROOF)
Q305 2SC1684STA BIAS OSC
Q308 2SC1684STA SWITCING (HEAD SW CONT.)
Q306,307 2SC2001ILITA MUTING
Q310 2SA564RTA MUTING CONT.
TELESCOPIC ANTENNA
J1 CD / AUX IN 316mv, 47KΩ
J2 EXT MIC 0.32mv 200~600Ω ø3.5
R/P HEAD
ERASE HEAD
J3 SPEAKER (IMP 2.7~8Ω)
J4 HEADPHONES 32Ω ø3.5
MOTOR
BATTERY 10 UM-1 BATTERIES 15V (R20P/LR 20 OR EQUIV.)

B GRAPHIC EQUALIZER CIRCUIT



C POWER SUPPLY CIRCUIT





...FM SIGNAL LINE

...PLAYBACK SIGNAL LINE

...RECORD SIGNAL LINE

...MAIN SIGNAL LINE

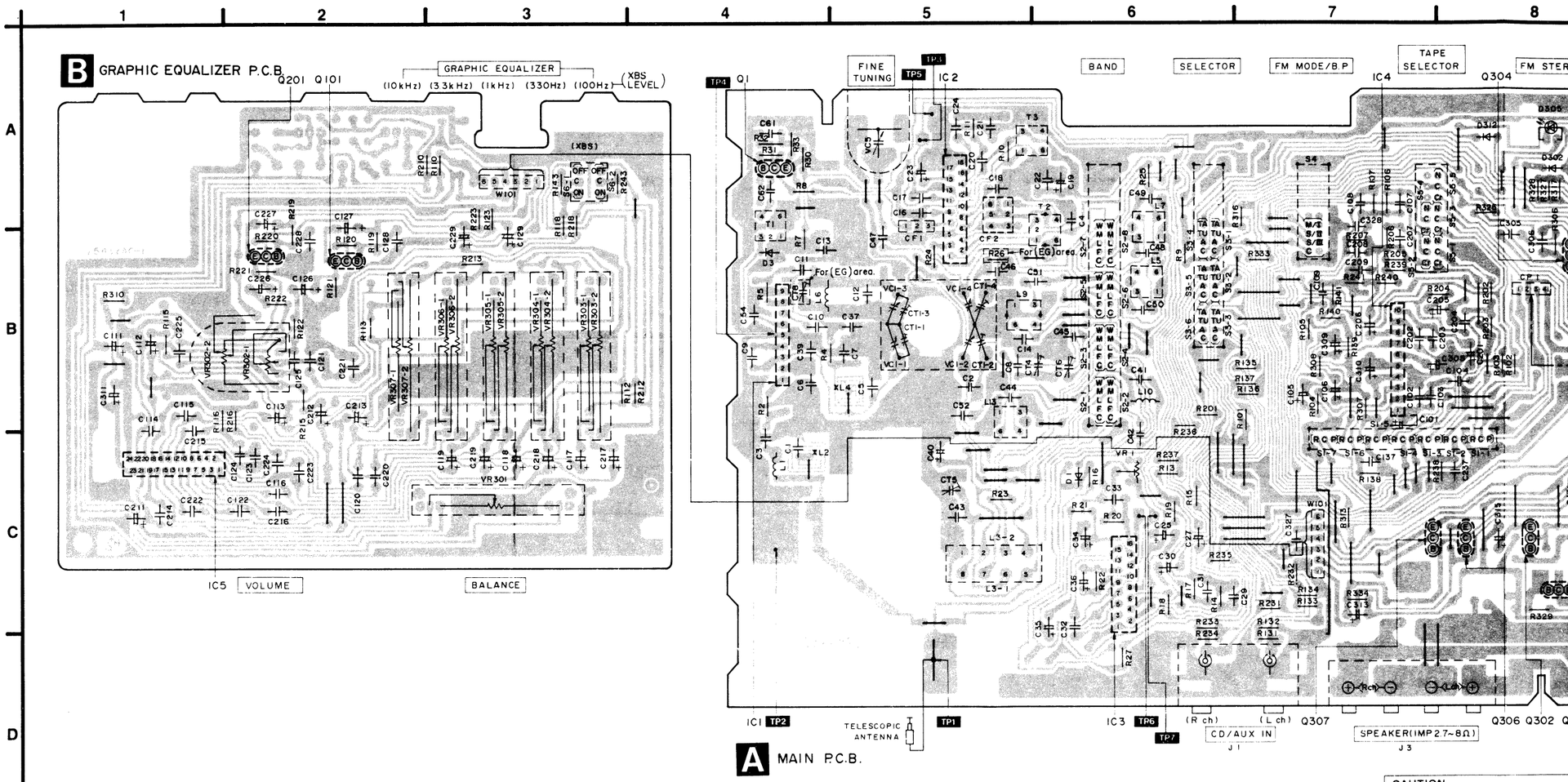
...+B LINE

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM

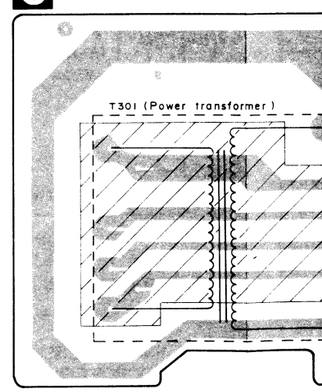
Notes:

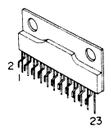
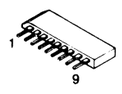
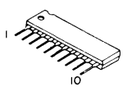
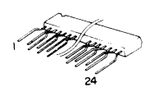
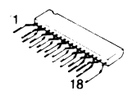
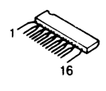
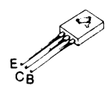
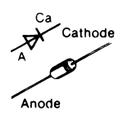
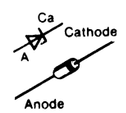
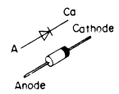
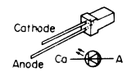
1. S1-1~S1-8: Record/Playback select switch in "PLAYBACK" position. (P...PLAYBACK, R...RECORD)
2. S2-1~S2-8: Band select switch in "FM" position. (F...FM, L...LW, M...MW, W...SW)
3. S3-1~S3-4: Function select switch in "TAPE/POWER OFF" position. (TA...TAPE/POWER OFF, TU...RADIO, A...CD/AUX)
4. S4: FM mode/Beat proof switch in "MONO/▮" position. (M/▮...MONO/▮, S/▮▮...STEREO/▮▮, S/▮▮▮...STEREO/▮▮▮)
5. S5-1~S5-5: Tape select switch in "NORMAL" position (N...NORMAL, Cr...CrO_2)
6. S6-1, S6-2: XBS switch in "OFF" position.
7. S7: Play switch.
8. S8: Head switch.
9. S9: FWD/REV switch.
10. S10: AC/DC select switch in "DC" position.
11. VR1: FM MPX adjustment VR.
12. VR301: Balance control VR.
13. VR302-1, VR302-2: Volume control VR.
14. VR303-1, VR303-2: Graphic E.Q. (100 Hz)/XBS level control VR.
15. VR304-1, VR304-2: Graphic E.Q. (330 Hz) control VR.
16. VR305-1, VR305-2: Graphic E.Q. (1 kHz) control VR.
17. VR306-1, VR306-2: Graphic E.Q. (3.3 kHz) control VR.
18. VR307-1, VR307-2: Graphic E.Q. (10 kHz) control VR.
19. DC voltage measurements are taken with electronics voltmeter. The negative terminal of the battery provides negative meter connection point.
    No mark...PLAYBACK, [ ]...RECORD,
    ( )...AM, < >...FM
20. Battery Current: Vol. min. .....78 mA (Tape Playback)
    Vol. max. .....1850 mA (Radio)
    1930 mA (Tape Playback)
    Measurement instruction
    Radio: FM 60 dB, 30% Mod.
    Tape: 315 Hz, 0 dB
21. The mark (■) shows test point e.g. TP1 =test point 1.
22. Important safety notice.
    Components identified by ⚠ mark have special characteristics important for safety.
    When replacing any of these components, use only manufacturer's specified parts.

•This schematic diagram may be modified at any time with the development of new technology.

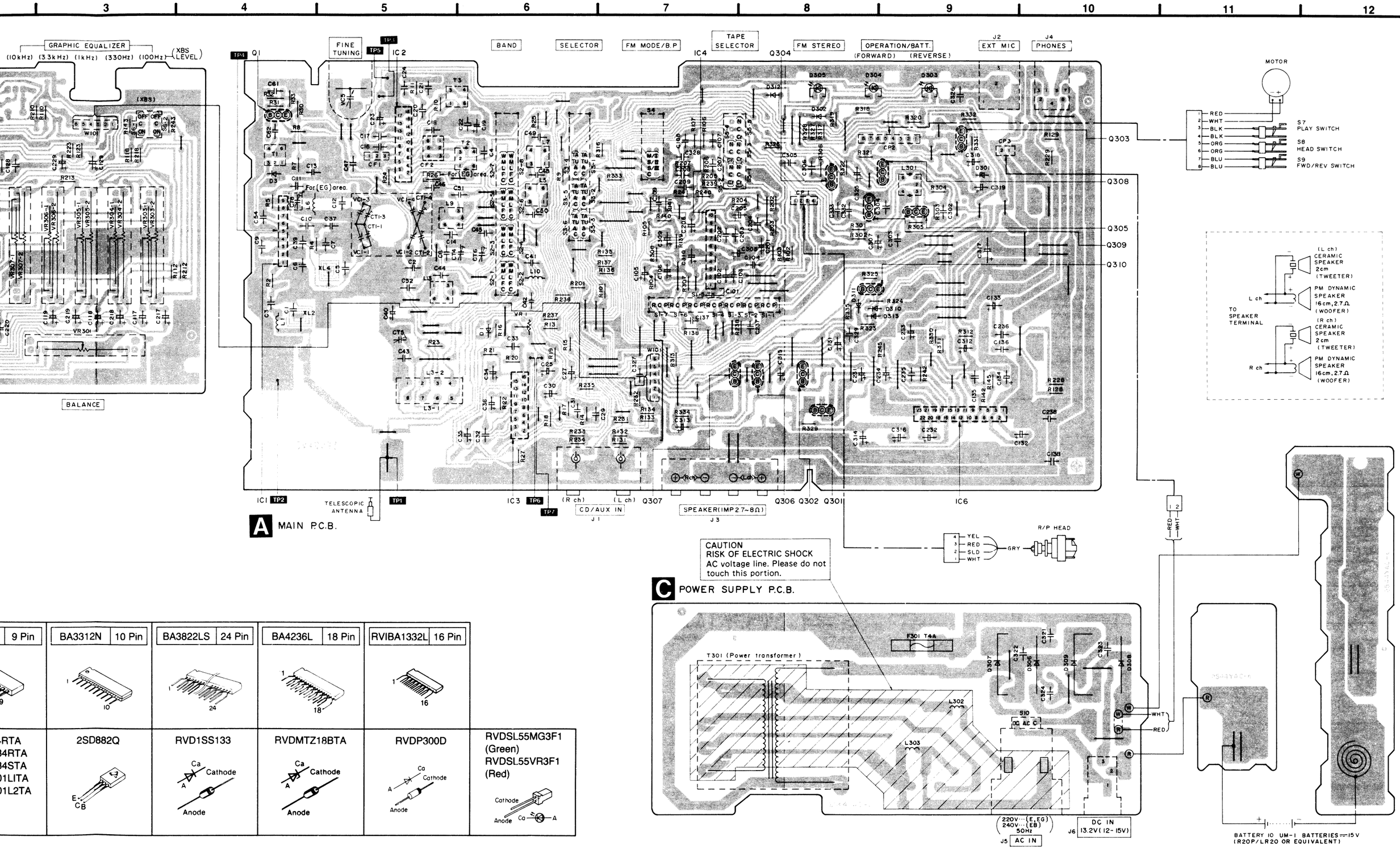


CAUTION
RISK OF ELECTRIC SHOCK
AC voltage line. Please do not touch this portion.



AN7133N	23 Pin	AN7205	9 Pin	BA3312N	10 Pin	BA3822LS	24 Pin	BA4236L	18 Pin	RVIBA1332L	16 Pin	
												
		2SA564RTA 2SC1684RTA 2SC1684STA 2SC2001LITA 2SC2001L2TA			2SD882Q		RVD1SS133		RVDMTZ18BTA		RVDP300D	RVDSL55MG3F1 (Green) RVDSL55VR3F1 (Red) 

NG CONNECTION DIAGRAM



	9 Pin	BA3312N	10 Pin	BA3822LS	24 Pin	BA4236L	18 Pin	RVIBA1332L	16 Pin
	RTA 34RTA 34STA 01LITA 01L2TA		2SD882Q		RVD1SS133		RVDMTZ18BTA		RVDP300D

RVDSL55MG3F1 (Green) RVDSL55VR3F1 (Red)

RX-CS750 RX-CS750

MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT	
1. Set volume control to maximum. 2. Set balance control to center. 3. Set band switch to LW, MW, SW or FM ST. 4. Set function selector to radio or tape. 5. Set Fine tuning control to center.	6. Set Graphic EQ to center. 7. Set power source voltage to 15 V DC. 8. Set FM mode/B.P switch to STEREO/III. 9. Output of signal generator should be no higher than necessary to obtain an output reading.

■ AM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	REMARKS
	AM-IF ALIGNMENT						
(1)	AM	Fashion a loop of several turns of wire and radiate the signal into loop ant. of the receiver.	459 kHz 30% Mod. at 400 Hz	Point of non-interference. (on/ about 600 kHz)	Headphones Jack (32Ω) Fabricate the plug as shown in Fig. 4. and then connect the lead wires of the plug to the measuring instrument.	T2 (AM IFT)	Adjust for maximum output.
	LW-RF ALIGNMENT						
(2)	LW	〃	(E) (EB)...136 kHz (EG)...137 kHz	Tuning capacitor fully closed.	〃	L7 (LW OSC Coil)	〃
(3)	LW	〃	297 kHz	Tuning capacitor fully open.	〃	CT6 (LW OSC Trimmer)	〃
(4)	LW	〃	145 kHz	Tune to signal.	〃	(*1) L3-1 (LW ANT Coil)	Adjust for maximum output. Adjust L3-1 by moving the ferrite core.
(5)	LW	〃	285 kHz	〃	〃	CT5 (LW ANT Trimmer)	Adjust for maximum output. Repeat steps (2)~(5).
	(*1) Cement antenna ferrite core with wax after completing alignment.						
	MW-RF ALIGNMENT						
(6)	MW	〃	(E) (EB)...511 kHz (EG)...514 kHz	Tuning capacitor fully closed.	〃	L5 (MW OSC Coil)	Adjust for maximum output.
(7)	MW	〃	(E) (EB) ...1650 kHz (EG)...1639 kHz	Tuning capacitor fully open.	〃	CT4 (MW OSC Trimmer)	〃
(8)	MW	〃	550 kHz	Tune to signal.	〃	(*2) L3-2 (MW ANT Coil)	Adjust for maximum output. Adjust L3-2 by moving the ferrite core.
(9)	MW	〃	1500 kHz	〃	〃	CT1-2 (MW ANT Trimmer)	Adjust for maximum output. Repeat steps (6)~(9).
	(*2) Cement antenna ferrite core with wax after completing alignment.						

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	REMARKS
	SW-RF ALIGNMENT						
(10)	SW	Connect to test point TP1 through ceramic capacitor (10 pF). Negative side to test point TP2.	5.75 MHz	Tuning capacitor fully closed.	Headphones Jack (32Ω) Fabricate the plug as shown in Fig. 4. and then connect the lead wires of the plug to the massuring instrument.	L9 (SW OSC Coil)	Adjust for maximum output.
(11)	SW		18.8 MHz	Tuning capacitor fully open.	〃	CT1-4 (SW OSC Trimmer)	〃
(12)	SW		5.9 MHz	Tune to signal.	〃	L13 (SW ANT Coil)	Adjust for maximum output. Repeat steps (10)~(12).

■ FM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	REMARKS
	FM-IF ALIGNMENT						
(13)	FM	High side thru. 0.001 µF to test point TP4, Negative side to test point TP2.	10.7 MHz (SWP)	Point of non-interference. (on/ about 90 MHz).	Connect vert. amp. of scope to test point TP3. Negative side to test point TP5.	T1 (FM 1st IFT)	Wave form is shown Fig. 2.
(14)	FM	〃	〃	〃	〃	T3 (FM 2nd IFT)	Wave form is shown Fig. 3.
	FM-RF ALIGNMENT						
(15)	FM	Connect to test point TP1 through FM dummy antenna. Negative side to test point TP2.	(E) (EB) ...86.2 MHz (EG)...87.5 MHz	Variable capacitor fully closed.	Headphones Jack (32Ω) Fabricate the plug as shown in Fig. 4. and then connect the lead wires of the plug to the massuring instrument.	L6 (FM OSC Coil)	(*2)Adjust for maximum output.
(16)	FM		(E) (EB) ...109.2 MHz (EG)...109.3 MHz	Variable capacitor fully open.	〃	(E) (EB)...CT1-3 (EG)...CT8 (FM OSC Trimmer)	〃
(17)	FM		106 MHz	Tune to signal.	〃	CT1-1 (FM ANT Trimmer)	Adjust for maximum output. Repeat steps (15)~(17).
	(*2) three output responses will be present; proper tuning is the center frequency.						

■ SEPARATION ALIGNMENT

FM SIGNAL GENERTOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
98 MHz, 60 dB (CW) Connect to test point TP1 through FM dummy antenna. Negative side to TP2.	TP6 ...(+) TP7 ...(−)	VR1	19 kHz	Adjust VR1, for 19 kHz ±50 Hz reading on frequency counter.

■ HEAD A

TEST TA
QZZCF (8 kHz, −2

■ TAPE SP

TEST TA
QZZCW (3 kHz

■ ALIGNM

●Please refer

MW 150 C

FM 106 C

(E)(EB)···86 (EG)···87.

[EG only] FM 109 C

FM IO.7

To Hea

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
		SW-RF ALIGNMENT					
(10)	SW	Connect to test point TP1 through ceramic capacitor (10 pF). Negative side to test point TP2.	5.75 MHz	Tuning capacitor fully closed.	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 4. and then connect the lead wires of the plug to the massuring instrument.)	L9 (SW OSC Coil)	Adjust for maximum output.
(11)	SW		18.8 MHz	Tuning capacitor fully open.	〃	CT1-4 (SW OSC Trimmer)	〃
(12)	SW		5.9 MHz	Tune to signal.	〃	L13 (SW ANT Coil)	Adjust for maximum output. Repeat steps (10)~(12).

■ FM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
		FM-IF ALIGNMENT					
(13)	FM	High side thru. 0.001 µF to test point TP4, Negative side to test point TP2.	10.7 MHz (SWP)	Point of non-interference. (on/ about 90 MHz).	Connect vert. amp. of scope to test point TP3. Negative side to test point TP5.	T1 (FM 1st IFT)	Wave form is shown Fig. 2.
(14)	FM	〃	〃	〃	〃	T3 (FM 2nd IFT)	Wave form is shown Fig. 3.
		FM-RF ALIGNMENT					
(15)	FM	Connect to test point TP1 through FM dummy antenna. Negative side to test point TP2.	(E) (EB) ...86.2 MHz (EG)...87.5 MHz	Variable capacitor fully closed.	Headphones Jack (32Ω) Fabricate the plug as shown in Fig. 4. and then connect the lead wires of the plug to the massuring instrument.	L6 (FM OSC Coil)	(*2)Adjust for maximum output.
(16)	FM		(E) (EB) ...109.2 MHz (EG)...109.3 MHz	Variable capacitor fully open.	〃	(E) (EB)...CT1-3 (EG)...CT8 (FM OSC Trimmer)	〃
(17)	FM		106 MHz	Tune to signal.	〃	CT1-1 (FM ANT Trimmer)	Adjust for maximum output. Repeat steps (15)~(17).
(*2) three output responses will be present; proper tuning is the center frequency.							

■ SEPARATION ALIGNMENT

FM SIGNAL GENERTOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
98 MHz, 60 dB (CW) Connect to test point TP1 through FM dummy antenna. Negative side to TP2.	TP6 ...(+) TP7 ...(−)	VR1	19 kHz	Adjust VR1, for 19 kHz ±50 Hz reading on frequency counter.

■ HEAD AZIMUTH ALIGNMENT

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
QZZCFM (8 kHz, −20 dB)	Headphones Jack (32Ω) (Fabricate the plug shown in Fig. 4. and then connect the lead wires of the plug to the measuring instrument.)	Azimuth screw (Shown in Fig. 5)	Maximum output	●Playback mode.

■ TAPE SPEED ADJUSTMENT

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
QZZCWAT (3 kHz)	Headphones Jack (32Ω) (Fabricate the plug shown in Fig. 4. and then connect the lead wires of the plug to the measuring instrument.)	Motor VR (Shown in Fig. 6)	3000±90 Hz	1. Playback mode. 2. Adjust motor VR, for 3000±90 Hz reading on frequency counter.

■ ALIGNMENT POINT

●Please refer to Circuit Board and Wiring Connection Diagram for test point locations.

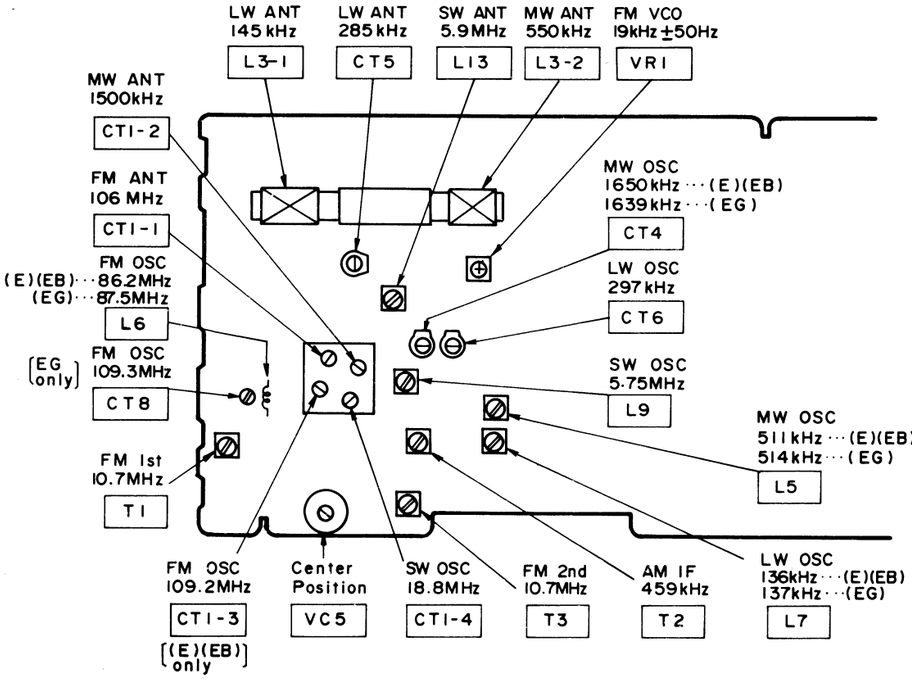


Fig. 1

Fig. 2

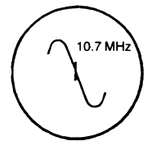


Fig. 3

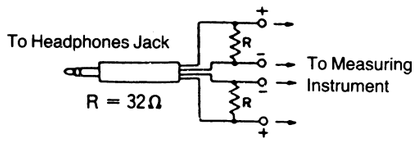


Fig. 4

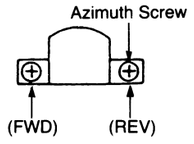


Fig. 5

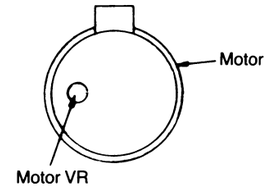


Fig. 6

Notes : * Capacity valuse are in microfarads (uF) unless specified otherwise, P=Pico-farads(pF) F=Farads(F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R2	ERDS2TJ220T	1/4 22
R4	ERDS2TJ101T	1/4 100
R5	ERDS2TJ4R7T	1/4 4.7
R7	ERDS2TJ221T	1/4 220
R8	ERDS2TJ101T	1/4 100
R9	ERDS2TJ560T	1/4 56
R10	ERDS2TJ392T	1/4 3.9K
R11	ERDS2TJ822T	1/4 8.2K
R13	ERDS2TJ222T	1/4 2.2K
R14	ERDS2TJ472T	1/4 4.7K
R15	ERDS2TJ222T	1/4 2.2K
R16	ERDS2TJ472T	1/4 4.7K
R17	ERDS2TJ472T	1/4 4.7K
R18	ERDS2TJ821T	1/4 820
R19	ERDS2TJ821T	1/4 820
R20	ERDS2TJ822T	1/4 8.2K
R21	ERDS2TJ102T	1/4 1K
R22	ERDS2TJ473T	1/4 47K
R23	ERDS2TJ330T	1/4 33
R24	ERDS2TJ470T	1/4 47
R25	ERDS2TJ100T	1/4 10
R26	ERDS2TJ562T	1/4 5.6K (EG)
R27	ERDS2TJ103T	1/4 10K
R31	ERDS2TJ334T	1/4 330K
R32	ERDS2TJ471T	1/4 470
R33	ERDS2TJ820T	1/4 82
R101	ERDS2TJ153T	1/4 15K
R102	ERDS2TJ123T	1/4 12K
R103	ERDS2TJ822T	1/4 8.2K
R104	ERDS2TJ560T	1/4 56
R105	ERDS2TJ222T	1/4 2.2K
R106	ERDS2TJ473T	1/4 47K
R107	ERDS2TJ153T	1/4 15K
R110	ERDS2TJ153T	1/4 15K
R112	ERDS2TJ103T	1/4 10K
R113	ERDS2TJ102T	1/4 1K
R115	ERDS2TJ222T	1/4 2.2K
R116	ERDS2TJ472T	1/4 4.7K
R118	ERDS2TJ103T	1/4 10K
R119	ERDS2TJ223T	1/4 22K
R120	ERDS2TJ224T	1/4 220K
R121	ERDS2TJ472T	1/4 4.7K
R122	ERDS2TJ472T	1/4 4.7K
R123	ERDS2TJ104T	1/4 100K
R128	ERDS2TJ2R2T	1/4 2.2
R129	ERDS2TJ151T	1/4 150

Ref. No.	Part No.	Values & Remarks
R131	ERDS2TJ473T	1/4 47K
R132	ERDS2TJ103T	1/4 10K
R133	ERDS2TJ334T	1/4 330K
R134	ERDS2TJ331T	1/4 330
R135	ERDS2TJ271T	1/4 270
R136	ERDS2TJ104T	1/4 100K
R137	ERDS2TJ334T	1/4 330K
R138	ERDS2TJ222T	1/4 2.2K
R139	ERDS2TJ391T	1/4 390
R140	ERDS2TJ682T	1/4 6.8K
R141	ERDS2TJ103T	1/4 10K
R142	ERDS2TJ223T	1/4 22K
R143	ERDS2TJ154T	1/4 150K
R145	ERDS2TJ220T	1/4 22
R201	ERDS2TJ153T	1/4 15K
R202	ERDS2TJ123T	1/4 12K
R203	ERDS2TJ822T	1/4 8.2K
R204	ERDS2TJ560T	1/4 56
R205	ERDS2TJ222T	1/4 2.2K
R206	ERDS2TJ473T	1/4 47K
R207	ERDS2TJ153T	1/4 15K
R210	ERDS2TJ153T	1/4 15K
R212	ERDS2TJ103T	1/4 10K
R213	ERDS2TJ102T	1/4 1K
R215	ERDS2TJ222T	1/4 2.2K
R216	ERDS2TJ472T	1/4 4.7K
R218	ERDS2TJ103T	1/4 10K
R219	ERDS2TJ223T	1/4 22K
R220	ERDS2TJ224T	1/4 220K
R221	ERDS2TJ472T	1/4 4.7K
R222	ERDS2TJ472T	1/4 4.7K
R223	ERDS2TJ104T	1/4 100K
R228	ERDS2TJ2R2T	1/4 2.2
R229	ERDS2TJ151T	1/4 150
R231	ERDS2TJ473T	1/4 47K
R232	ERDS2TJ103T	1/4 10K
R233	ERDS2TJ334T	1/4 330K
R234	ERDS2TJ331T	1/4 330
R235	ERDS2TJ271T	1/4 270
R236	ERDS2TJ104T	1/4 100K
R237	ERDS2TJ334T	1/4 330K
R238	ERDS2TJ222T	1/4 2.2K
R239	ERDS2TJ391T	1/4 390
R240	ERDS2TJ682T	1/4 6.8K
R241	ERDS2TJ103T	1/4 10K
R242	ERDS2TJ223T	1/4 22K
R243	ERDS2TJ154T	1/4 150K
R245	ERDS2TJ220T	1/4 22
R301	ERDS2TJ102T	1/4 1K

Ref. No.	Part No.	Values & Remarks
R302	ERDS2TJ152T	1/4 1.5K
R303	ERDS2TJ223T	1/4 22K
R304	ERDS2TJ101T	1/4 100
R305	ERDS2TJ6R8T	1/4 6.8
R306	ERDS2TJ472T	1/4 4.7K
R307	ERDS2TJ274T	1/4 270K
R308	ERDS2TJ121T	1/4 120
R310	ERDS2TJ331T	1/4 330
R311	ERDS2TJ152T	1/4 1.5K
R312	ERDS2TJ152T	1/4 1.5K
R313	ERDS2TJ222T	1/4 2.2K
R316	ERDS2TJ561T	1/4 560
R317	ERDS2TJ152T	1/4 1.5K
R318	ERDS2TJ331T	1/4 330
R319	ERDS2TJ151T	1/4 150
R320	ERDS2TJ102T	1/4 1K
R321	ERDS2TJ473T	1/4 47K
R322	ERDS2TJ682T	1/4 6.8K
R323	ERDS2TJ103T	1/4 10K
R324	ERDS2TJ222T	1/4 2.2K
R325	ERDS2TJ272T	1/4 2.7K
R326	ERDS2TJ472T	1/4 4.7K
R327	ERDS2TJ182T	1/4 1.8K
R328	ERDS2TJ182T	1/4 1.8K
R329	ERDS2TJ471T	1/4 470
R330	ERDS2TJ822T	1/4 8.2K
R331	ERDS2TJ560T	1/4 56
R332	ERDS2TJ1R0T	1/4 1
R333	ERDS2TJ221T	1/4 220
R334	ERDS2TJ223T	1/4 22K
R335	ERDS2TJ224T	1/4 220K
		CAPACITORS
C1	RCBS1H470JLY	50V 47P
C2	RCBS1H100JCY	50V 10P (E) (EB)
C2	RCBS1H120JCY	50V 12P (EG)
C3	RCBS1H100JCY	50V 10P
C4	RCBS1H102KBY	50V 0.001
C5	RCBS1H200JCY	50V 20P
C6	RCBS1H102KBY	50V 0.001
C7	RCBS1C103MYY	50V 0.01
C8	RCBS1H150JCY	50V 15P
C9	RCBS1H4R7KCY	50V 4.7P
C10	RCBS1H180JCY	50V 18P
C11	RCBS1H470JLY	50V 47P
C12	RCBS1H200JCY	50V 20P (E) (EB)
C12	ECCT1H220JR	50V 22P (EG)
C13	RCBS1C103MYY	16V 0.01

Ref. No.	Part No.	Values & Remarks
C14	RCBS0J223MYY	6.3V 0.022
C16	ECFT1C223MDY	16V 0.022
C17	RCBS1H331KBY	50V 330P
C18	ECFT1C223MDY	16V 0.022
C19	ECEA0JU221B	6.3V 220P
C20	RCBS1C103MYY	16V 0.01
C21	RCBS1C103MYY	16V 0.01
C22	RCBS0J223NYY	6.3V 0.022
C23	ECEA1HU4R7B	50V 4.7
C24	ECFT1C153MDY	16V 0.015
C25	ECEA1HU010B	50V 1
C27	ECEA1HU010B	50V 1
C29	ECFT1C153MDY	16V 0.015
C30	ECEA1HU010B	50V 1
C31	ECFT1C153MDY	16V 0.015
C32	ECFT1C153MDY	16V 0.015
C33	ECQP2A102JZT	100V 0.001
C34	ECEA1HUR47B	50V 0.47
C35	ECEA1HUR47B	50V 0.47
C36	ECEA1HU2R2B	50V 2.2
C37	RCBS1H102KBY	50V 0.001
C39	RCBS1H102KBY	50V 0.001
C40	ECEA1HU2R2B	50V 2.2
C41	RCBS1H100JCY	50V 10P
C42	RCBS1H220JCY	50V 22P
C43	RCBS1H470JLY	50V 47P
C44	RCBS1H1R5MCY	50V 1.5P
C45	RCBS1H2R2KCY	50V 2.2P
C46	RCBS1H120JCY	50V 12P
C47	RCBS1H100JCY	50V 10P
C48	ECQP2A221JZT	100V 220P
C49	ECQP2A151JZT	100V 150P
C50	ECQP2A361JZT	100V 360P
C51	ECQP1392JZT	100V 0.0039
C52	ECFT1C333MDY	16V 0.033
C54	RCBS1H331KBY	50V 330P
C61	RCBS1C103MYY	16V 0.01
C62	RCBS1C103NYY	16V 0.01
C101	ECEA1HU010B	50V 1
C102	RCBS1H102KBY	50V 0.001
C103	RCBS1H101KBY	50V 100P
C104	RCBS0J153MYY	6.3V 0.015
C105	ECEA0JU470B	6.3V 47
C106	ECEA1EU4R7B	25V 4.7
C107	RCBS1H102KBY	50V 0.001
C108	RCBS1C152MXY	16V 0.0015
C109	RCBS1C103MYY	16V 0.01
C111	ECEA1HU010B	50V 1
C112	ECEA1HU010B	50V 1
C113	ECEA1CU100B	16V 10
C114	RCBS1H471KBY	50V 470
C115	RCBS1H102KBY	50V 0.001

Ref. No.	Part No.	Values & Remarks
C116	RCBS1C332MXY	16V 0.0033
C117	ECEA1HU2R2B	50V 2.2
C118	ECEA1HUR33B	50V 0.33
C119	ECEA1HU0R1B	50V 0.1
C120	ECFT1C333MDY	16V 0.033
C121	ECFT1C153MDY	16V 0.015
C122	RCBS1C103MYY	16V 0.01
C123	ECFT1C563MDY	16V 0.056
C124	RCBS1C103MYY	16V 0.01
C125	RCBS1C152MXY	16V 0.0015
C126	ECEA1HUR33B	50V 0.33
C127	ECEA1HUR22B	50V 0.22
C128	ECFT1C333MDY	16V 0.033
C129	ECEA1HU010B	50V 1
C131	ECEA1HUR33B	50V 0.33
C132	ECEA1EU101B	25V 100
C133	ECEA1CU222E	16V 2200
C134	ECEA0JU101B	6.3V 100
C135	RCBS1H471KBY	50V 470P
C136	ECQV1H224JZ3	50V 0.22
C137	RCBS1C222MXY	16V 0.0022
C138	RCBS1H221KBY	50V 220P
C201	ECEA1HU010B	50V 1
C202	RCBS1H102KBY	50V 0.001
C203	RCBS1H101KBY	50V 100P
C204	RCBS0J153MYY	6.3V 0.015
C205	ECEA0JU470B	6.3V 47
C206	ECEA1EU4R7B	25V 4.7
C207	RCBS1H102KBY	50V 0.001
C208	RCBS1C152MXY	16V 0.0015
C209	RCBS1C103MYY	16V 0.01
C211	ECEA1HU010B	50V 1
C212	ECEA1HU010B	50V 1
C213	ECEA1CU100B	16V 10
C214	RCBS1H471KBY	50V 470P
C215	RCBS1H102KBY	50V 0.001
C216	RCBS1C332MXY	16V 0.0033
C217	ECEA1HU2R2B	50V 2.2
C218	ECEA1HUR33B	50V 0.33
C219	ECEA1HU0R1B	50V 0.1
C220	ECFT1C333MDY	16V 0.033
C221	ECFT1C153MDY	16V 0.015
C222	RCBS1C103MYY	16V 0.01
C223	ECFT1C563MDY	16V 0.056
C224	RCBS1C103MYY	16V 0.01
C225	RCBS1C152MXY	16V 0.0015
C226	ECEA1HUR33B	50V 0.33
C227	ECEA1HUR22B	50V 0.22
C228	ECFT1C333MDY	16V 0.033
C229	ECEA1HU010B	50V 1
C231	ECEA1HUR33B	50V 0.33
C232	ECEA1EU101B	25V 100

Ref. No.	Part No.	Values & Remarks
C233	ECEA1CU222E	16V 0.0022
C234	ECEA0JU101B	6.3V 100
C235	RCBS1H471KBY	50V 470P
C236	ECQV1H224JZ3	50V 0.22
C237	RCBS1C222MXY	16V 0.0022
C238	RCBS1H221KBY	50V 220P
C302	ECFT1C223MDY	16V 0.022
C303	RCBS1C222MXY	16V 0.022
C304	ECQP1272JZT	100V 0.0027
C305	ECCT1H181K	50V 180P
C306	ECKT1H103ZF	50V 0.001
C307	ECEA0JU101B	6.3V 100
C308	ECEA1HU3R3B	50V 3.3
C309	ECEA1AU221B	100V 220
C310	ECEA1CU470B	16V 47
C311	ECEA1AU221B	10V 220
C312	ECEA1CU100B	16V 10
C313	ECEA1EU4R7B	25V 4.7
C314	ECEA1EU221B	25V 220
C315	ECEA0JU470B	6.3V 47
C316	ECEA1CU470B	16V 47
C317	ECEA1EU472	25V 0.0047
C318	ECEA1EU470B	25V 47
C319	ECEA1EU4R7B	25V 4.7
C321	ECQV1H104JZ3	50V 0.1
C322	ECQV1H104JZ3	50V 0.1
C323	ECQV1H104JZ3	50V 0.1
C324	ECQV1H104JZ3	50V 0.1
C325	ECEA0JU221B	6.3V 220
C326	RCBS1H331KBY	50V 330P
C327	RCBS1H102KBY	50V 0.001
C328	RCBS1H470JLY	50V 47P
C329	RCBS1H331KBY	50V 330P
C332	ECKT1H471KB	50V 470P
C333	ECKT1H103ZF	50V 0.01
C350	ECEA1HUR47B	50V 0.47

Notes : • Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
• The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
• Ⓜ Indicates in Remarks columns parts that are supplied by MESA.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUITS	
IC1	AN7205	I. C, FRONT END	
IC2	BA4236L	I. C, IF AMP	
IC3	RVIBA1332L	I. C, FM MPX	
IC4	BA3312N	I. C, PRE AMP	
IC5	BA3822LS	I. C, G. E. Q AMP	
IC6	AN7133N	I. C, POWER AMP	
		TRANSISTORS	
Q1	2SC829BTA	TRANSISTOR	
Q101	2SC1684RTA	TRANSISTOR	
Q201	2SC1684RTA	TRANSISTOR	
Q301	2SD882Q	TRANSISTOR	
Q302	2SC2001L1TA	TRANSISTOR	
Q303	2SD882Q	TRANSISTOR	
Q304	2SC1684STA	TRANSISTOR	
Q305	2SC1684STA	TRANSISTOR	
Q306	2SC2001L1TA	TRANSISTOR	
Q307	2SC2001L1TA	TRANSISTOR	
Q308	2SC1684STA	TRANSISTOR	
Q309	2SC1684STA	TRANSISTOR	
Q310	2SA564RTA	TRANSISTOR	
		DIODES	
D1	RVD1SS133TA	DIODE	
D3	RVD1SS133TA	DIODE	
D301	RVDMTZ18BTA	DIODE	Ⓜ
D302	RVD1SS133TA	DIODE	
D303	RVDSL55MG3F1	DIODE	Ⓜ
D304	RVDSL55MG3F1	DIODE	Ⓜ
D305	RVDSL55VR3F1	DIODE	Ⓜ
D306	RVDP300DLF	DIODE	
D307	RVDP300DLF	DIODE	
D308	RVDP300DLF	DIODE	
D309	RVDP300DLF	DIODE	
D310	RVD1SS133TA	DIODE	
D311	RVD1SS133TA	DIODE	
D312	RVD1SS133TA	DIODE	
D313	RVD1SS133TA	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
		VARIABLE RESISTORS	
VR1	EVND4AA00B14	V. R. FM VCO	
VR301	EWAGU3C14G15	V. R. BALANCE	Ⓜ
VR302	EWCT5AF20B54	V. R. VOLUME	Ⓜ
VR303	EWAGQ6C14G54	V. R, G. E. Q. (100Hz)	Ⓜ
VR304	EWAGQ6C14G54	V. R, G. E. Q. (330Hz)	Ⓜ
VR305	EWAGQ6C14G54	V. R, G. E. Q. (1KHz)	Ⓜ
VR306	EWAGQ6C14G54	V. R, G. E. Q. (3. 3KHz)	Ⓜ
VR307	EWAGQ6C14G54	V. R, G. E. Q. (10KHz)	Ⓜ
		VARIABLE CAPACITORS	
CT4	RCVTZ11F	TRIMMER CAPACITOR	
CT5	RCVTZ20F	TRIMMER CAPACITOR	
CT6	RCVTZ20F	TRIMMER CAPACITOR	
CT8	RCVCTZ3110	TRIMMER CAPACITOR	(EG)
VC1	RCV4RC2V2K-A	VARIABLE CAPACITOR	
VC5	RCVMFTPC17X	VARIABLE CAPACITOR	
		COILS AND TRANSFORMERS	
L1	RLQY30S1W-0	COIL	
L3	RLF6W9A-0	BAR ANTENNA	Ⓜ
L6	RLD4Y53W-0	COIL	(E) (EB)
L6	RLO4N233-0	COIL	(EG)
L7	RLO1B13-M	COIL	
L9	RLO3B87-M	COIL	
L10	RLQY30S1W-0	COIL	
L13	RLA3B41-M	COIL	
L301	RLO9B17-T	COIL	
L302	RLQZB220KT-D	COIL	
L303	RLQZB220KT-D	COIL	
T1	RLI4B153-M	I, F, TRANSFORMER	
T2	RLI2B153-M	I, F, TRANSFORMER	
T3	RLI4B153-M	I, F, TRANSFORMER	
T301	RLT5L5A4A-X	POWER TRANSFORMER	Ⓜ⚠ (EB)
T301	RLT5L5G4B-X	POWER TRANSFORMER	Ⓜ⚠ (E) (EB)
		FILTERS	
CF1	RVF107WMZ	CERAMIC FILTER	
CF2	RVFSFZ459JL	CERAMIC FILTER	

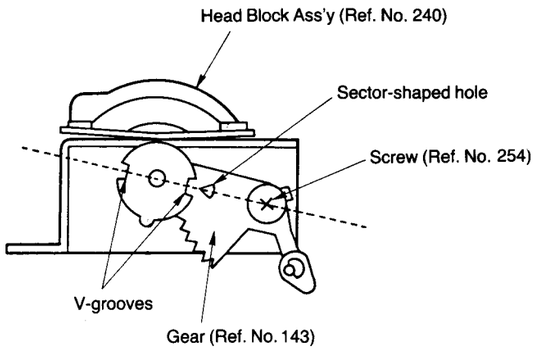
Ref. No.	Part No.	Part Name & Description	Remarks
		FUSES	
F1	XBA2C40TB0K	FUSE	⚠
		SWITCHES	
S1	RSH2G03WA-A	SW, R/P	Ⓜ
S2	RST4H19ZA-A	SW, BAND SELECT	Ⓜ
S3	RST3F27ZA-A	SW, FUNCTION	Ⓜ
S4	RST3B36ZA-A	SW, MODE SELECT	Ⓜ
S5	RSH2F10ZA-Q	SW, TAPE SELECT	
S6	ESB6483	SW, XBS	Ⓜ
S7	RFA98ZA	SW, MOTOR	Ⓜ
S8	RFA99ZA	SW, HEAD	Ⓜ
S9	RFA99ZA	SW, FWD/REV	Ⓜ
		JACKS	
J1	RJF1099YA	JACK, LINE IN	
J2	RJJ1D25ZA-C	JACK, EXT MIC	
J3	RJF1098ZA-H	JACK, SPEAKER	
J4	RJJD7S2ZA-C	JACK, PHONES	Ⓜ
J5	RJJ1A5ZC-H	JACK, AC IN	⚠
J6	RJJB3ZD-C	JACK, DC IN	

Ref. No.	Part No.	Part Name & Description	Remarks
		MECANISUM	
		CASSETTE DECK	
101	RFU179ZA	MECHA CHASSIS ASS'Y	Ⓜ
103	RFG144ZA	GEAR	Ⓜ
104	RFG145ZA	GEAR	Ⓜ
105	RFJ94ZA	REEL CAP	Ⓜ
106	RFS864ZA	SPRING	Ⓜ
107	RFX176ZA	BUSH	Ⓜ
113	RFG146ZA	GEAR ASS'Y	Ⓜ
114	RFX141ZA	COLLER	Ⓜ
115	RFD410ZA	IDLER PLATE ASS'Y	Ⓜ
116	RFD411ZA	PLATE	Ⓜ
117	RFD412ZA	PLATE	Ⓜ
118	RFD413ZA	PLATE	Ⓜ
119	RFS865ZA	SPRING	Ⓜ
120	RFS866ZA	SPRING	Ⓜ
122	RFD414ZA	PLATE	Ⓜ
124	RFY931ZA	ERASE LEVER	Ⓜ
125	RJH2C04XZ	HEAD	Ⓜ
126	RFS868ZA	SPRING	Ⓜ
127	RFX177ZA	COLLER	Ⓜ
130	RFU180ZA	HEAD CHASSIS ASS'Y	Ⓜ
131	RFE524ZA	LUG PLATE	Ⓜ
132	RFS869ZA	SPRING	Ⓜ
133	RFS870ZA	SPRING	Ⓜ
135	RFY932ZA	SLIDE PLATE-C ASS'Y	Ⓜ
140	RFD418ZA	AZIMUTH-C PLATE	Ⓜ
141	RFE526ZA	AZIMUTH SPRING PLATE	Ⓜ
143	RFG148ZA	HEAD-B GEAR	Ⓜ
144	RFS872ZA	SPRING	Ⓜ
145	RFS873ZA	SPRING	Ⓜ
146	RFE527ZA	SCREW	Ⓜ
147	RFD419ZA	PLATE	Ⓜ
148	RFY933ZA	LEVER	Ⓜ
149	RFS892ZA	SPRING	Ⓜ
151	RFS874ZA	SPRING	Ⓜ
153	RFR622A	PINCH ROLLER ASS'Y	Ⓜ
154	RFR632A	PINCH ROLLER ASS'Y	Ⓜ
157	RFS875ZA	SPRING	Ⓜ
158	RFS876ZA	SPRING	Ⓜ
159	RFS877ZA	SPRING	Ⓜ
160	RFS878ZA	SPRING	Ⓜ
162	RFG149ZA	IDLER GEAR	Ⓜ
164	RFY934ZA	PAUSE LEVER	Ⓜ
165	RFY935ZA	PAUSE STOP ARM	Ⓜ
166	RFY936ZA	PAUSE ARM	Ⓜ
167	RFS882ZA	SPRING	Ⓜ
168	RFY937ZA	STOP LEVER	Ⓜ
169	RFY938ZA	FF LEVER	Ⓜ
170	RFY939ZA	REW LEVER	Ⓜ
171	RFY940ZA	CUE STOP ARM	Ⓜ

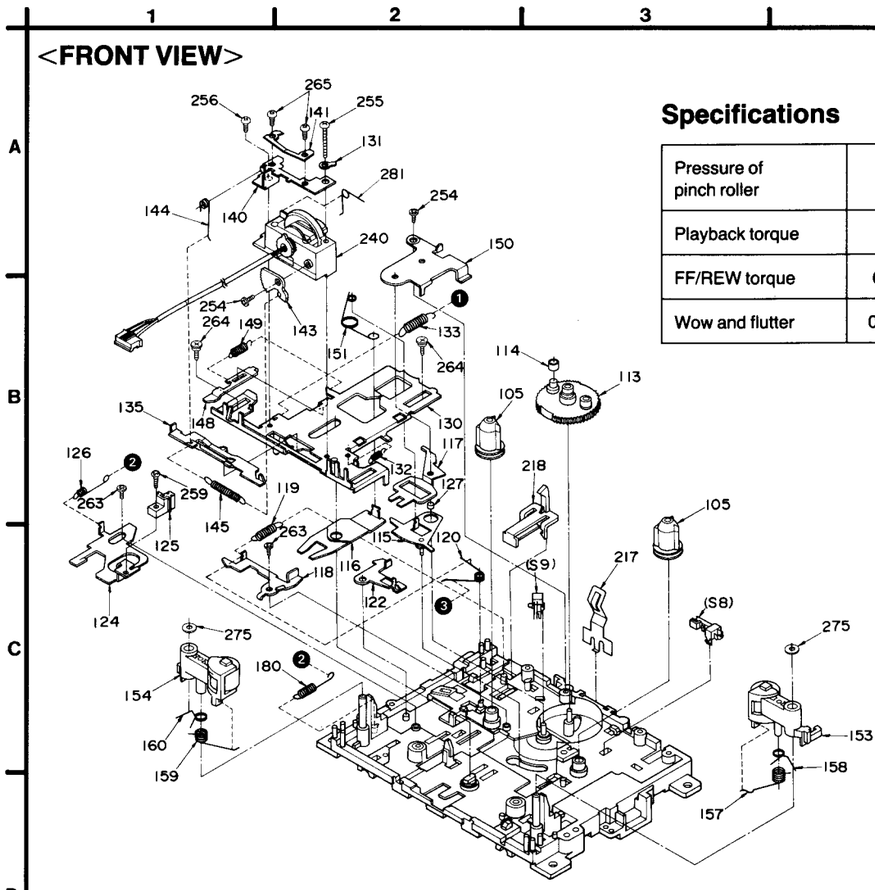
Ref. No.	Part No.	Part Name & Description	Remarks
172	RFS879ZA	SPRING	M
174	RFY941ZA	RLAY-B LEVER	M
175	RFS880ZA	SPRING	M
176	RFD421ZA	PLATE	M
177	RFD422ZA	PLATE	M
178	RFY942ZA	REC LEVER	M
179	RFY943ZA	REC ARM	M
180	RFS881ZA	SPRING	M
182	RFY944ZA	FUNCTION PLATE	M
183	RFY945ZA	FUNCTION PLATE	M
184	RFS883ZA	SPRING	M
185	RFD423ZA	FF IDLER LEVER	M
186	RFK25ZA	IDLER ASS'Y	M
187	RFU181ZA	LEVER HOLDER ASS'Y	M
188	RFS884ZA	SPRING	M
190	RFY946ZA	LEVER	M
191	RFS885ZA	SPRING	M
193	RFD424ZA	PLATE	M
194	RFY946ZA	LEVER	M
195	RFY947ZA	LEVER	M
196	RFS886ZA	SPRING	M
197	RFY948ZA	SENSER LEVER	M
198	RFY949ZA	SENSER LEVER	M
199	RFS887ZA	SPRING	M
200	RFS888ZA	SPRING	M
201	RFY950ZA	CANCEL LEVER	M
202	RFE260Z	BUSH	
204	RFK26ZA	IDLER ASS'Y	M
205	RFY951ZA	STOP SENSER ARM	M
206	RFQ66ZA	PULLY	M
207	RFQ67ZA	PULLY	M
211	RFF76ZA	FLYWHEEL ASS'Y	M
212	RFF77ZA	FLYWHEEL ASS'Y	M
213	RFS889ZA	SPRING	M
214	RFS891ZA	SPRING	M
215	RFB111ZA	BELT	M
216	RFB112ZA	BELT	M
217	RFS890ZA	PLATE SPRING	M
218	RFY692Z	LEVER	
219	RFD425ZA	HOLDER	M
220	RFE414ZA	SCREW	
226	RFD426ZA	MOTOR HOLDER	M
240	RFH29ZA	HEAD BLOCK ASS'Y	M
250	RFM168ZA	MOTOR	M
254	RFE304Z	SCREW	
255	RFE528ZA	SCREW	M
256	RFE363ZA	SCREW	
259	RFE530ZA	SCREW	M
260	RFE305Z	SCREW	
261	RFE306Z	SCREW	
262	RFI24Z	CUSHION	
263	RFE531ZA	SCREW	M

Ref. No.	Part No.	Part Name & Description	Remarks
264	RFE532ZA	SCREW	M
265	RFE533ZA	SCREW	M
273	RFN162Z	WASHER	
274	RFN163Z	WASHER	
275	RFN110Z	WASHER	
276	RFN168Z	WASHER	
281	RFS895ZA	SPRING	M
282	RHR3393ZA	HOLDER	M

Note:
When attaching the gear to the Head Block Ass'y, attach it so that the V-grooves in the head Block Ass'y, the sector-shaped hole in the gear and the center of the screw are aligned as shown by the dotted line in the figure.



MECHANISM PARTS LOCATION

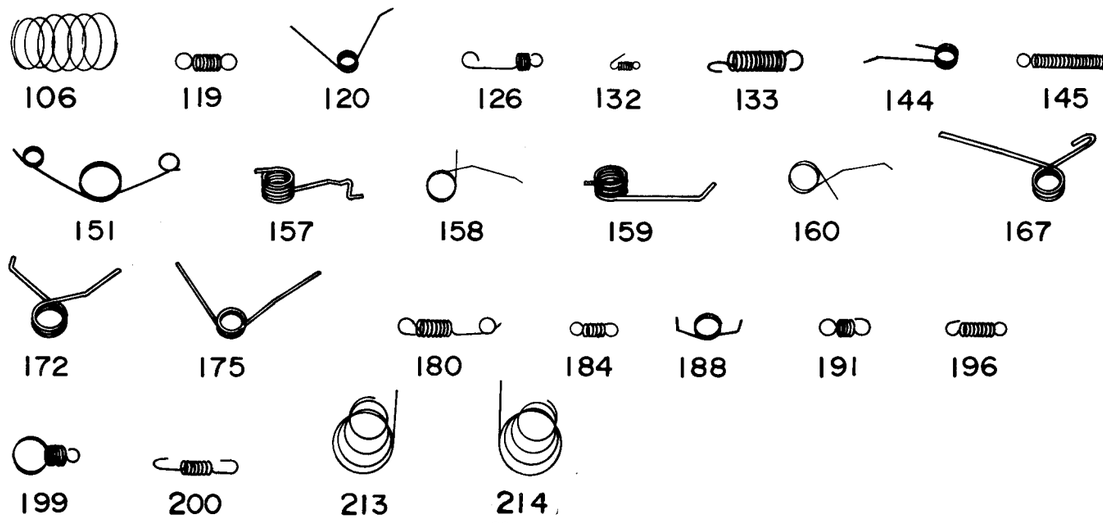


Specifications

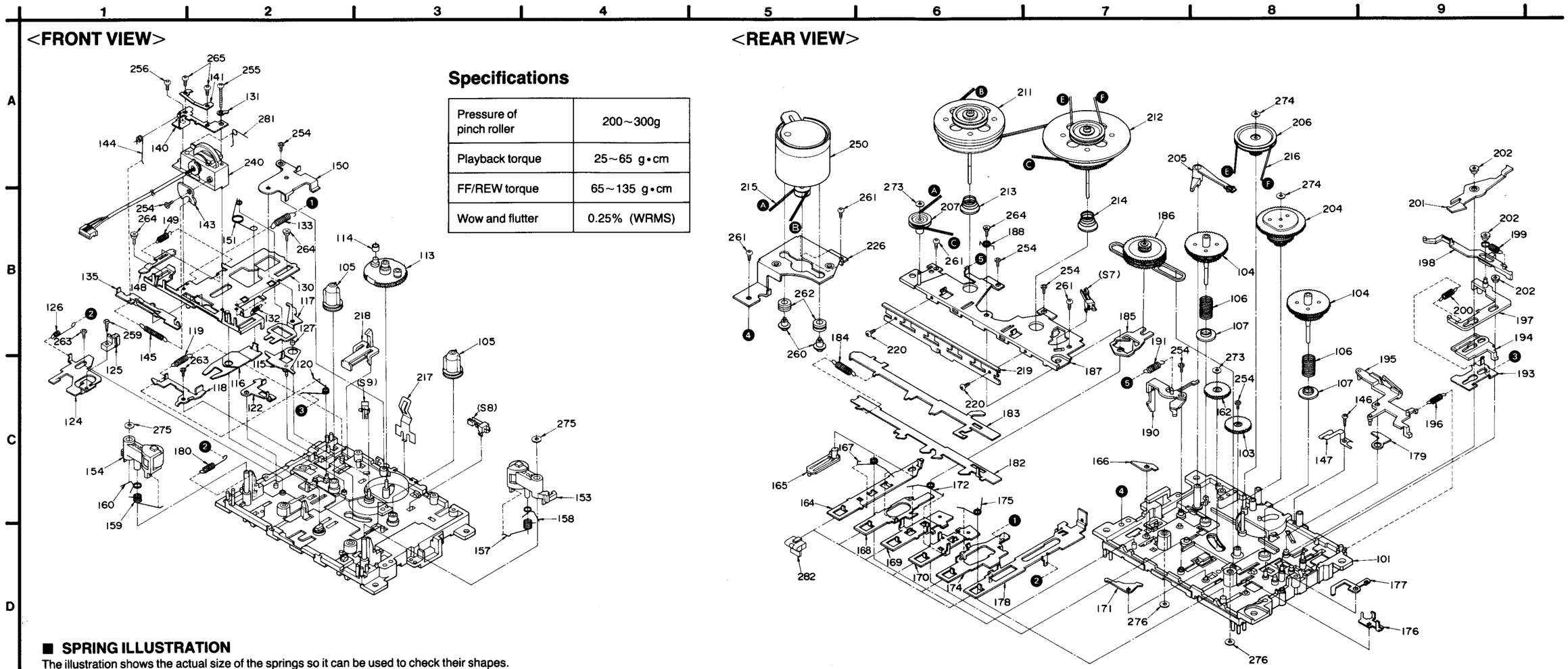
Pressure of pinch roller	200~300g
Playback torque	25~65 g•cm
FF/REW torque	65~135 g•cm
Wow and flutter	0.25% (WRMS)

■ SPRING ILLUSTRATION

The illustration shows the actual size of the springs so it can be used to check their shapes.
(The illustration shows the springs separated from the mechanism.)



MECHANISM PARTS LOCATION



<FRONT VIEW>

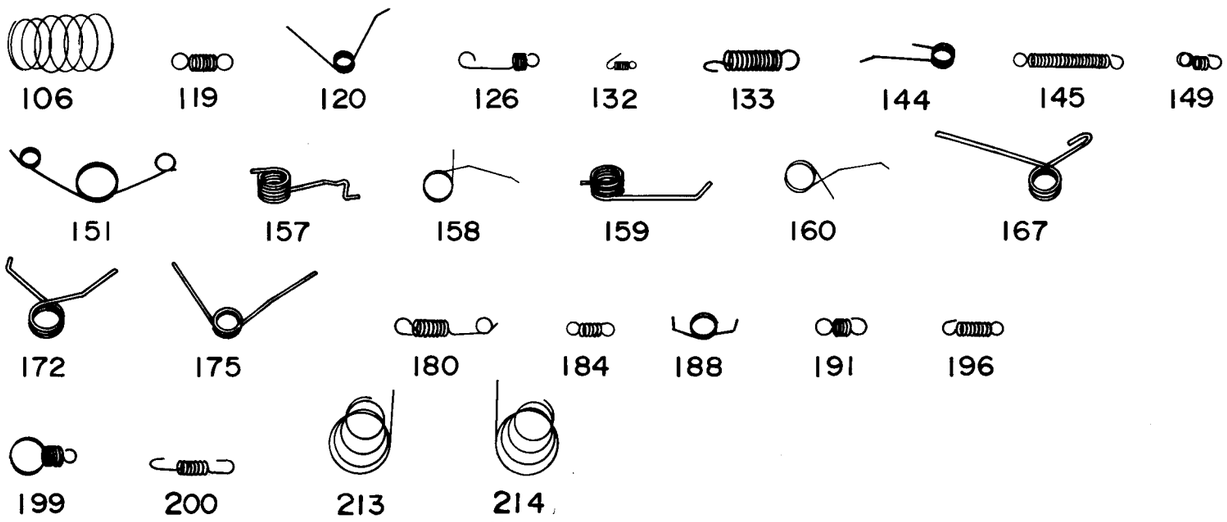
Specifications

Pressure of pinch roller	200~300g
Playback torque	25~65 g•cm
FF/REW torque	65~135 g•cm
Wow and flutter	0.25% (WRMS)

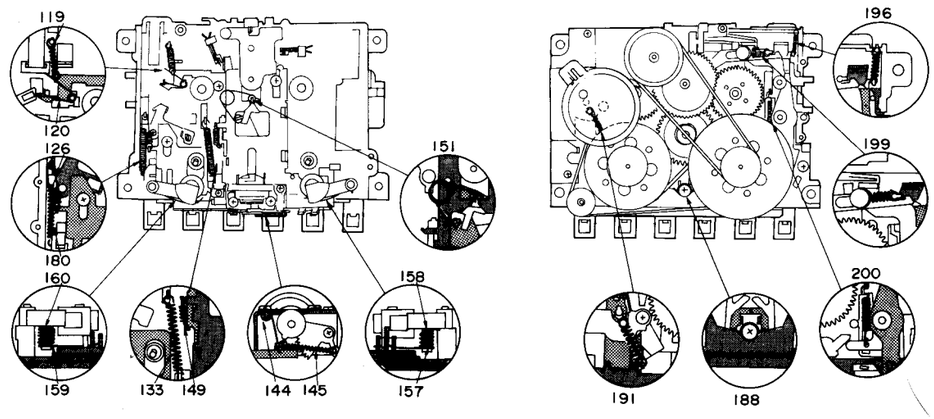
<REAR VIEW>

■ SPRING ILLUSTRATION

The illustration shows the actual size of the springs so it can be used to check their shapes.
(The illustration shows the springs separated from the mechanism.)

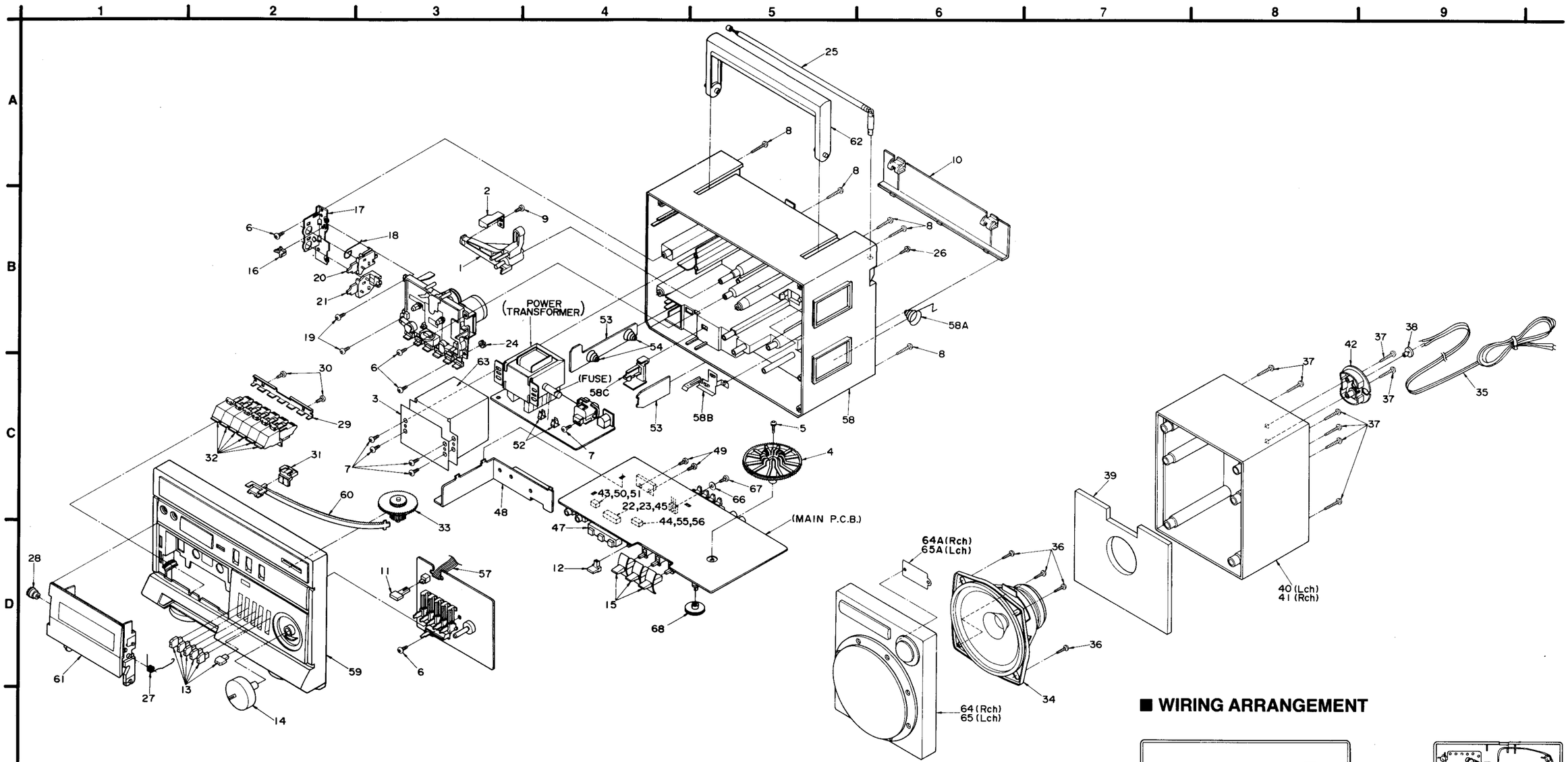


■ SPRING LOCATION

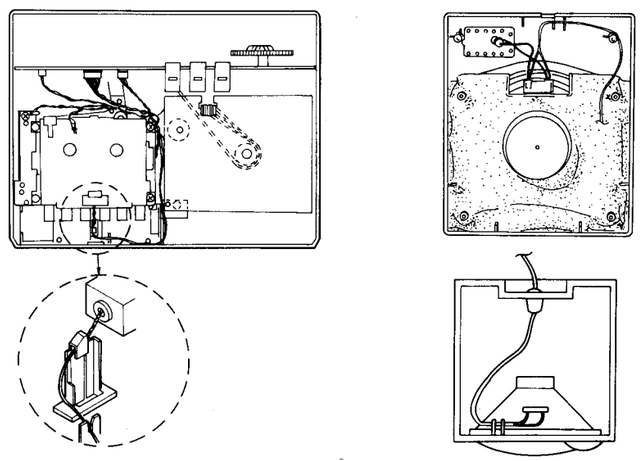


RX-CS750

CABINET PARTS LOCATION



■ WIRING ARRANGEMENT



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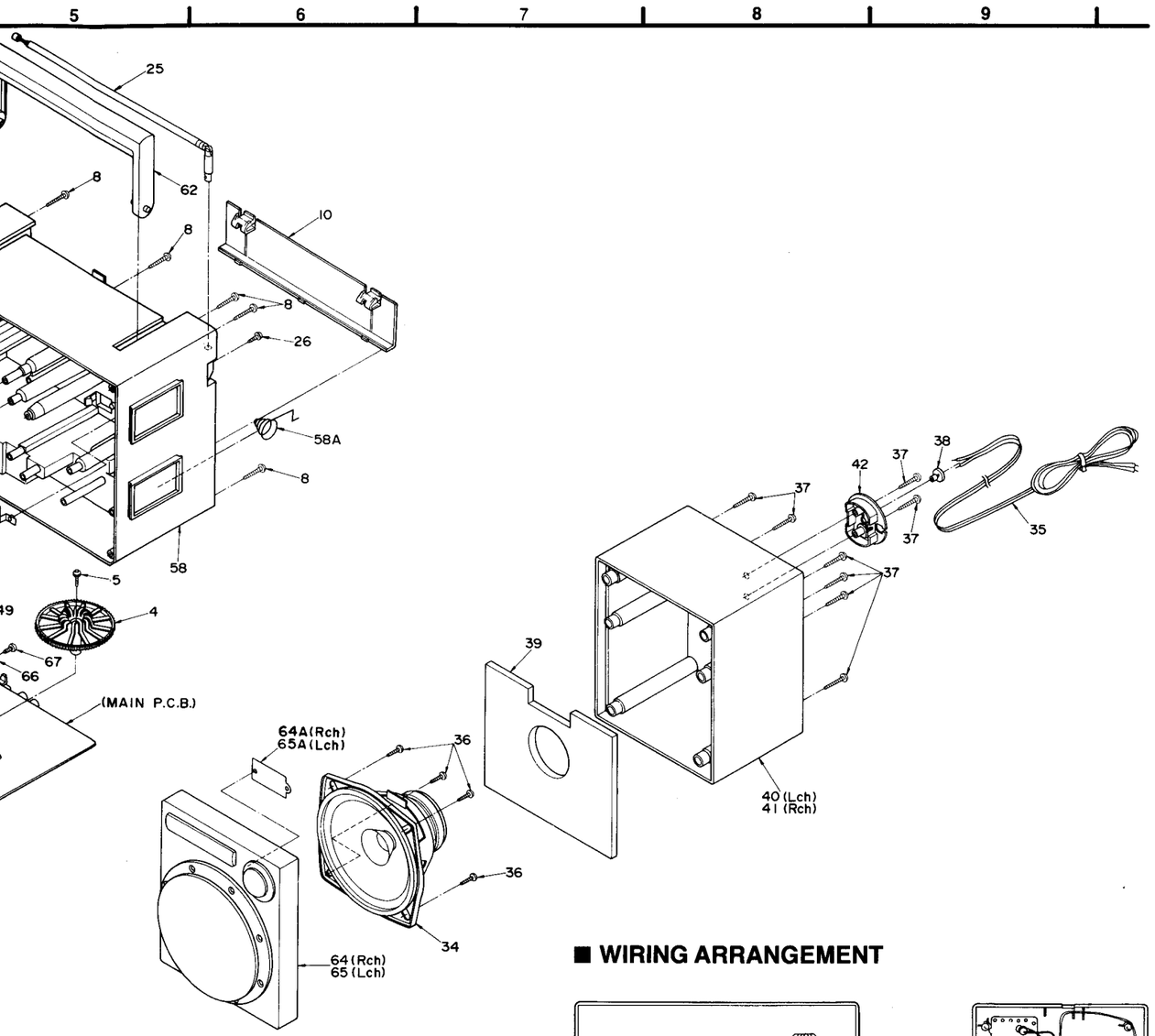
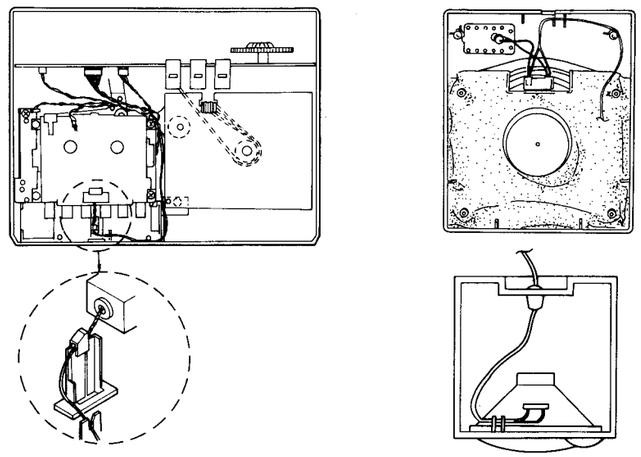


■ WIRING ARRANGEMENT



Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RUB566ZA	LEVER	M
2	RUS777ZA	SPRING	M
3	RMC1257ZA	SHIELD PLATE, A	M
4	RDG5901ZA	SHIELD PLATE, B	M
5	XYN26+C6	SCREW	
6	XTN3+12G	SCREW	
7	XTV3+12G	SCREW	
8	XTV3+20G	SCREW	
9	XTV3+8G	SCREW	
10	RKK347ZA-0	BATTERY COVER	M
11	RBC1399ZA-0	BUTTON, XBS	M
12	RBC1400ZA-0	BUTTON, TAPE	M
13	RBD5677ZA-0	KNOB, BAL/G. EQ	M
14	RBN783ZA-0	KNOB, VOLUME	M
15	RBS261ZA-0	KNOB, BAND	M
16	RUB567ZA	LEVER	M
17	RUL1134ZA	ANGLE	M
18	RUW216ZA	SPRING	M
19	XTV3+8J	SCREW	
20	RBD568ZA-0	KNOB, DIRECTION	M
21	RBD569ZA-0	KNOB, REV MODE	M
22	RJS8L3ZA-X	SOCKET	
23	RJT707ZA-X	CONTACT	
24	RJT5142D	TERMINAL	
25	XEARR225DA-Y	TELESCOPIC ANTENNA	
26	XTN3+F12FY	SCREW	M
27	RUS781ZA	SPRING	M
28	RDG5782YC	GEAR	M
29	RMD2072ZA	ANGLE	M
30	XTV3+8G	SCREW	
31	RDP359ZA-0	DIAL POINTER	M
32	RBC1401ZA-0	BUTTON, MECHANISM	M
33	RBT283ZB-0	KNOB, TUNING	M
34	EAS16P431A-G	SPEAKER	M
35	RJE297ZA	SPEAKER CORD	M
36	XTV3+10G	SCREW	
37	XTV3+20GFY	SCREW	
38	RHG2152ZA	BUSH	M
39	RHR3401ZA	SOUND ABBSOBER	M
40	RKF971ZA-0	SP BOX	M
41	RKF971YA-0	SP BOX	M
42	RKE651ZA-0	HANGER	M
43	RJP2G4YA	CONNECTOR	
44	RJP4G18ZA	CONNECTOR	
45	RJP8G4YA	CONNECTOR	
47	RMP288ZA	LED HOLDER	M
48	RMY265ZA	HEAT SHINK	M
49	XTV3+8F	SCREW	
50	RJS2L3ZA-X	SOCKET	

Ref. No.	Part No.	Part Name & Description	Remarks
51	RJT707ZA-X	CONTACT	
52	RJF28ZA	FUSE HOLDER	⚠
53	RUP2544YAC	P. C. B	M
54	RJC511ZB	BATTERY SPRING	
55	RJS4L4ZA-X	SOCKET	
56	RJT807ZB-X	CONTACT	
57	WBB6CB-25KK	FLAT CABLE	M
58	RYFXCS750E	REAR CABINET ASS'Y	M (E)
58	RYFXCS750EB	REAR CABINET ASS'Y	M (EB)
58	RYFXCS750EG	REAR CABINET ASS'Y	M (EG)
58A	RJC931ZC	BATTERY TERMINAL	
58B	RJT1139ZA	ANT. TERMINAL	M
58C	RHR3397ZA	HOLDER	M
59	RYMXCS750E	FRONT CABINET ASS'Y	M (E)
59	RYMXCS750EB	FRONT CABINET ASS'Y	M (EB)
59	RYMXCS750EG	FRONT CABINET ASS'Y	M (EG)
60	RZGXCS750P	RACK ASS'Y	M
61	RYQXCS750P	CASSETTE LID ASS'Y	M
62	RYHXCS750P	HANDLE ASS'Y	M
63	RWEXCS750P	SHIELD PLATE ASS'Y	M
64	RYM2XCS750P	SP PANEL ASS'Y (R)	M
64A	RYEXCS750P	TWEETER ASS'Y	M
65	RYM3XCS750P	SP PANEL ASS'Y (L)	M
65A	RYEXCS750P	TWEETER ASS'Y	M
66	XNG3C	WASHER	
67	XYN3+F12FY	SCREW	
68	RBT280ZA-0	KNOB, FINE TUNING	
		ACCESSORIES	
A1	RJA202D-K	POWER CORD	⚠ (E) (EB)
A1	RJA86ZB-K	POWER CORD	⚠ (EB)
A2	RZXXCS750E	INSTRUCTION MANUAL ASS'Y	M
		PACKING MATERIAL	
P1	RPH655ZA	SHEET	M
P2	RPN958BZA	PAD	M
P3	RPK281 4ZA	GIFT BOX	M

Printed in Singapore
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ORDER NO. AD8909272S2

Service Manual

Supplement

Radio Cassette

Portable Stereo Component System

RX-CS750

Color

(K)...Black Type

Please file and use this manual together with the service manual for Model No. RX-CS750 (E), (EB), (EG), Order No. MD8905020C2.

Area

Country Code	Areas	Color
(E)	Continental Europe	(K)
(EB)	Great Britain	
(EG)	F.R. Germany/Italy	

CORRECTION

MEASUREMENTS AND ADJUSTMENTS

■ FM ALIGNMENT [(EG) Only]

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
	FM-RF ALIGNMENT						
(15)	FM	Connect to test point **TP1** through FM dummy antenna. Negative side to test point **TP2**.	(E) (EB) ...86.2 MHz (EG)...87.5 MHz	Variable capacitor fully closed.	Headphones Jack (32Ω) Fabricate the plug as shown in Fig. 4. and then connect the lead wires of the plug to the massuring instrument.	L6 (FM OSC Coil)	(*2)Adjust for maximum output.
(16)	FM		(E) (EB) ...109.2 MHz (EG)...109.3 MHz	Variable capacitor fully open.	"	(E) (EB)...CT1-3 (EG)...CT8 (FM OSC Trimmer)	"

⇩

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
	FM-RF ALIGNMENT						
(15)	FM	Connect to test point **TP1** through FM dummy antenna. Negative side to test point **TP2**.	(E) (EB) ...86.2 MHz (EG)...**87.35 MHz**	Variable capacitor fully closed.	Headphones Jack (32Ω) Fabricate the plug as shown in Fig. 4. and then connect the lead wires of the plug to the massuring instrument.	L6 (FM OSC Coil)	(*2)Adjust for maximum output.
(16)	FM		(E) (EB) ...109.2 MHz (EG)...**108.3 MHz**	Variable capacitor fully open.	"	(E) (EB)...CT1-3 (EG)...CT8 (FM OSC Trimmer)	"

Panasonic

Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan

■ ALIGNMENT POINT

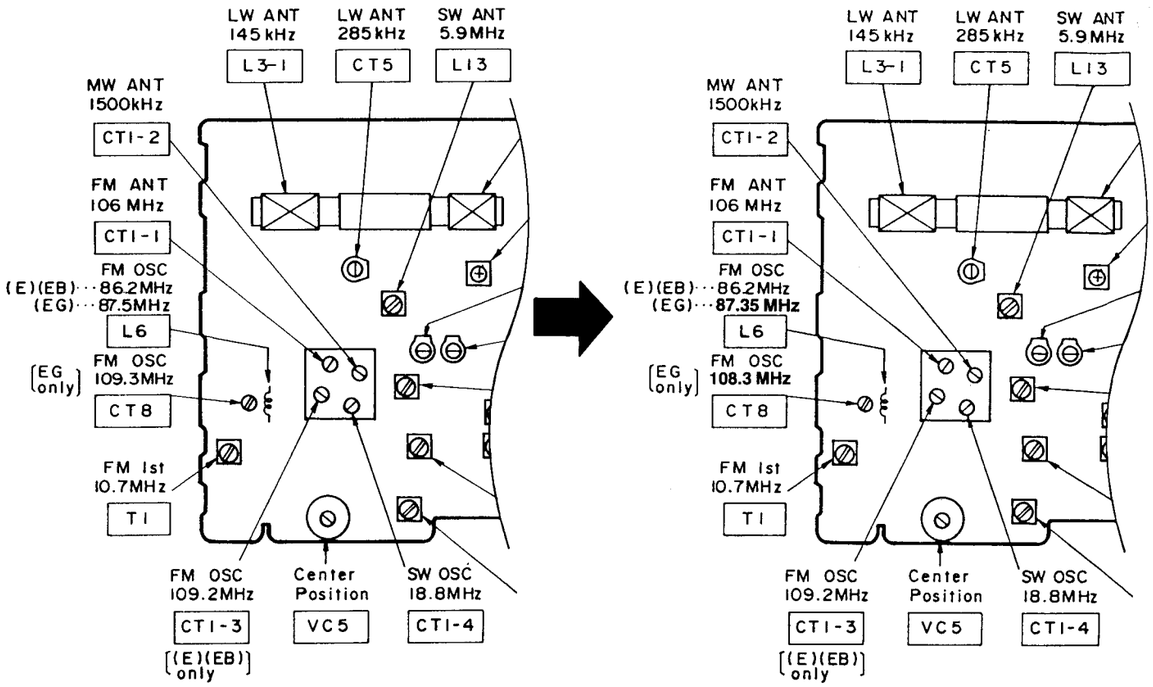

Fig. 1 Fig. 1

CHANGE

Notes: *The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.

[(E), (EB) Only]

Ref. No.	Part Name & Description	Change of Part No.		Remarks
		FORMER	**NEW**	
COILS AND TRANSFORMERS				
L6	COIL	RLD4Y53W-0	**RL04Y53W-0**	(E), (EB)

Printed in Japan
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